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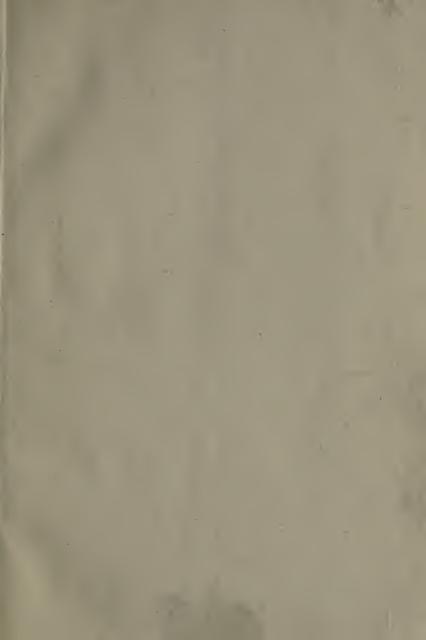
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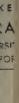






RAI ERSIT





THESAURUS

OF

ENGLISH AND HINDUSTANT

TECHNICAL TERMS

USED IN

BUILDING AND OTHER USEFUL ARTS;

AND

SCIENTIFIC MANUAL

OF

WORDS AND PHRASES IN THE HIGHER BRANCHES OF KNOWLEDGE:

CONTAINING UPWARDS OF FIVE THOUSAND WORDS NOT GENERALLY TO BE FOUND IN THE ENGLISH AND URDU DICTIONARIES.

"Indocti discant, et ament meminisse periti."

BY

CAPTAIN H. G. RAVERTY,

3RD REGIMENT, BOMBAY N.I.

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ADVERTISEMENT.

The aim of the Author in the compilation of these pages is to supply a want constantly felt with regard to Technical Terms, which, though of every-day use, one is often puzzled to remember at the moment.

He therefore conceives that a book of portable size, containing the technical names of materials and tools connected with the Useful Arts, such as Bridge and House Building, Carpentry, Painter's Work, Earthwork, Roads, Metals, Smiths' Work, etc., and of such other words as have reference to every-day duties in the Public Works Department, and in Civil and Military Engineering—to which the events of the last eighteen months have naturally given a stimulus which is likely to continue for a long time to come—would be a desideratum. To these have been added such other terms in Science, and the higher branches of knowledge, as in these days of railroads and electric telegraphs seemed imperatively called for.

The Work contains some five thousand words and phrases not generally to be found in Urdū or Hindūstānī Dictionaries, however bulky, but which are nevertheless commonly used all over India; as well as terms to be met with in the vernacular Scientific Treatises—chiefly translations from the Arabic, Persian, and Sanskrit, in which the words in those languages have been retained, there being no equivalents for them in Urdū—and in practical scientific works, which have been from time to time translated from English, under the patronage, or by the order, of the different Governments of India, and which are now the text-books in all Government Colleges and Public Schools.

This volume, therefore, can scarcely fail to be of practical utility to all Officers and Subordinates employed in the Public Works Departments of the three Presidencies; to the numerous Staff of the different Railway Companies, their Contractors, Overseers, and other employés, whether European or Native; and, indeed, in all cases where a bulky and expensive Dictionary is undesirable.

The Author believes also that it will be found of important use to the Regimental Interpreter, who—often liable to be puzzled (as is not to be wondered at) for a technical term—should always have it at hand amongst

his other books, when in attendance at courts-martial, or engaged in the performance of similar duties; to the Student of Hindūstānī, and to Mūnshīs engaged in teaching; in public Schools; to persons employed in maritime pursuits and in river navigation; and, in fact, to all to whom the knowledge of the Hindūstānī dialect—spoken more or less, as the common parlance, from the Himalayas to Cape Comorin, and from the Indus to the Irrawādī—may be (and in truth is) a necessary acquirement.

The Work is therefore published of a convenient size for the pocket; and—considering the beauty of the typography, which cannot be approached in India, or even in Europe—at a price extremely low, and which puts it within the reach of all who may require its aid.

H. G. R.

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KEY TO THE PRONUNCIATION.

A key is superfluous to those who have already studied the Hindūstānī dialect, but to those who have not, it is indispensable.

The short vowels—a, as in marine; i, as in pin; and u, as in bull.

The long vowels— \bar{a} , as in father; $\bar{\imath}$, in machine; and \bar{u} , in rule.

The other vowels—o, as in rose; ow, as in blow; e, as in they, or French le; and w and y, as in English.

 \underline{t} t, by reverting the point of the tongue to the palate.

s, as th in thing, or lisped s.

j, as in judge.

ch, as in church.

h, strongly aspirated.

kh, guttural, as ch in Scotch loch.

dd, by applying the top of the tongue, inverted, to the palate.

rr, by striking the point of the tongue on the palate.

jz, as s in pleasure, or soft French j.

sh, as in shell.

s, as ss in dissolve, guttural.

z, as drd. or guttural z.

t, as English t, slightly aspirated.

z, as English z, slightly aspirated.

 α . as the dipthong α , or guttural α .

- k, guttural with something of the sound of q.
- k. as in king.
- h, slightly aspirated.
- The remaining letters have precisely the same powers as in English words.
- *** Care must be taken not to give the long sound when it should be short, and *vice rersâ*, as the word will be unintelligible if this caution is neglected.

THESAURUS

OF

ENGLISH AND HINDŪSTĀNĪ

TECHNICAL TERMS.

I.—ARTIZANS, TRADES-PEOPLE, WORKMEN, ETC.

Appraiser,	$a\underline{t}\underline{t}kal$ - $b\bar{a}z$ اتكل باز
Apprentice,	شاگرد <u>sh</u> āgird
Architect, $k\bar{a}n$	معمار miæmār , كاماتي nāttī
Armourer, āhan-gar	صيقل گر şaikal-gar آهن ا
Artificer in general, an \ peshah	كاريگر kārīgar , پيشهور war-
Artizan,	کسبی kasb-ī
,, (superior workman),	مستري mistrī
Bamboo-splitter, or worker in bamboo,	بانس يهوڙ bāns-phorr
Banker,	sāhūkār ساهوكار
Bargeman, boatman, kishtī-nān ,,	کشتگی بان $ki\underline{s}\underline{h}tar{\imath}$ - $bar{a}n$ کشتی
Basket-maker, or)	bed - $b\bar{a}f$ بيد باف
Rattan-worker, [§]	burrurr ;;;
Belt-man, peon, chaprāsī, patā-nā	$lar{a}$ پتا والا, $chaprar{a}sar{\imath}$ پتا والا
Betel-leaf seller,	تمولکی tamoli

Cutler.

```
Blacksmith, smith,
                                         لدها, loh-ar آهنگر āhan-gar
                          كَشَتِي وان ki<u>sh</u>tī-wān بيڙي والا be<u>rr</u>ī-wālā
جلد گر jild-gar
Boatman, bargeman,
Bookbinder.
                             كتاب فروش kitāb-farosh صحاف, kitāb-farosh
Bookseller,
Brazier (founder), dealer
                                   کسیرا kaserā , تامت گر tāmatt-gar
             in brass, etc.,
         (tinker),
                                     راج rāz راز rāz كامائي, rāj راج
Bricklayer,
Brick-maker,
                                kum-hār ,کمیا, khisht-paz خشت د
Broker.
Builder,
                                      معمار miæmār كاماتي, miæm
                                        قصائ kassāb قصاب kasā'ī قصائ
Butcher.
Carder of cotton,
Carpenter, joiner,
Cart-man.
Cart or wheel-wright,
Chandler (corn), grocer,
Chaprāsī, belt-man,
Clerk, writer.
Clock or watch-maker,
Cloth merchant,
Coffin-maker, undertaker,
Comber of cotton (see Carder).
Cook.
Cooper,
Corn dealer, grocer,
Cultivator, husbandman,
Currier (tanner),
   ,, (leather-seller, )
```

behinnā Ling najār ستار, sutār ستار, barrha'ī بڙهئي, mistrī مسترى, darūd-gar $gar{a}\underline{rr}ar{\imath}$ - $nar{a}n$ گاڙيباي, $gar{a}\underline{rr}ar{\imath}$ - $bar{a}n$ گاڙيباي بڙهئي barrha'ī نسا bakkāl بقال, baniyā جپراسي <u>ch</u>aprāsī , پتا والا كراني krānī بايو sā-æat-sāz jlu melu bazāz ; ;; تابوت گر tābūt-gar behinnā الم banarchi باورچي برمیل گر barmīl-gar ينا bakāl لقال, baniyā بنيا مزارع muzāriæ, كشتكار kisht-kār kunbī كنبي chamār , حمار sakkāk الك

<u>tthatt</u>herā \يقتيرا

dallāl کلال

```
A dealer (affixed to words), farosh فروش, dūkān-dār دوكان دار
    ., (general), a huckster, retailer, khūrdah-farosh خورده فروش
Dealer in brass and mixed metals,
                                                      kaserā \ Lun
                                                      būrriyā U;
Diver.
                                                         bazāz il;
Draper, a mercer,
                                      ينساري pansārī ,عطار
Druggist,
                                    رنگرين rang-rez برنگارا rang-ārā
Dyer.
Engineer (civil),
                                                    miæmār, he.
                            كنده كار kandah-kar ,قلم كار kalam-kar
Engraver,
Excavator,
                                                     bel-dar بيلدار
Farrier.
                                  سالوترى sālastrī سالسترى, sālotrī
Foreman.
                                  مقدّم mukaddam , ييشوا
Founder (brazier),
                                 کسیرا , kaserā تامت گر
Furbisher, armourer,
                                               میقل گر saikal-gar
Gang of workmen,
                                                       madad ss.
Gardener,
                                   b\bar{a}gh-b\bar{a}n باغ بان, m\bar{a}-l\bar{t}
                               طلا كار tilā-kār كوفت ركم koft-gar
Gilder.
                       مَا يَن والا kānch-nālā أين والا
Glazier,
Goldsmith or silversmith,
                                          سنار sunār ; گر zar-gar
                                  حرواها charnahā, دهنگر
Grazier (cowherd),
                                                    bārr-yā Uil
Grinder (of swords, etc.),
                                         بنيا bakkāl لقّال, baniyā بنيا
Grocer.
                                 سايس sā'īs ,گيورا والا
Groom.
Harness-maker, saddler, or shoemaker,
                                                     mochi ,
               مزارع muzāriæ , كشت كار ki<u>sh</u>t-kār بذگر muzāriæ مزارع
                                                     kunbī . Sim
                                               bhatthiyara المالية
Innkeeper, or cook at a public serā'e,
Jeweller.
                                                     jarriyā جڙيا
Joiner, mistrī مستري, najār بترهي, sutār بترهي, ba<u>rr</u>ha'ī بترهي, bangha'ī بترهي, kamāsut كميرا, kamerā كميرا
                             سان گر sān-gar صيقل گر saiķal-gar
Knife-grinder,
Labourer (day).
                                                    maz-dūr
```

```
Labourer (porter),
                                                          kulī قلي
                                       چمار <u>ch</u>amār دبّاغ,
Leather-curer, currier, or tanner,
Leather-cutter, saddler,
                                                      mochi
                                                  اوهار loh-ār
اهل کار ahl-i-kār
Locksmith,
Man of business.
                                                     kārī-gar Lil
Manufacturer.
                                  راج rāj راز rāz كاماتي, rāj راج
Mason, or builder,
      (stone),
                          معمار miæmār سنگ تراش sang-tarāsh
                                       كارىگر ustād استاد, kārī-gar
Master (artificer).
      (tradesman), an artist,
                                         استاد ustād كاسب kāsib
Mat-maker, or mat- | boriyā-bāf بوريا باف, chattā'ī-nālā بوريا باف
  weaver,
سوداگر saudā-gar ,سهاجن mahā-jan ,بيپاري Merchant,
                                                      bel.dar , الملدار
Navvy, excavator,
                                  تنڌيل ttanddel مقدّم
Overseer,
                                                    kamangar Line
Painter.
                                                rang-sāz نگڪ ساز
   " (house or carriage),
                                                    كاغذي kāghaz-ī
Paper-maker, a stationer,
                                           دست فروش dast farosh
Pedlar.
                                                      bel-dar , lalu
Pioneer.
                                           قلى kuli مزدور, kuli قلى
Porter,
                                           kulāl كلال, kumhār كمقار
Potter.
                                           chhapey-nālā VI
Printer.
                                     بيد باف burrarr بيَّة, bed-baf بيَّة
Rattan or cane-worker,
                                                رىسى ساز rasan sāz
Roper or rope-maker,
                                         موچي mochi بسرّاج
Saddler.
Sailor, boatman, kisht\bar{i}-m\bar{a}n کشتی وای, m\bar{a}njh\bar{i} ملائح, mall\bar{a}h ملائح, mall\bar{a}h ارد کش kar\bar{a}nt\bar{i} کرانتی, arrah-ka\underline{s}h
                              بت تراش but-tarāsh , تراشی tarāshī
Sculptor,
                                                   muhr-kan S
Seal-engraver,
                                       جهازي jahāz-ī ملاح
Seaman, sailor,
                                  نوكر nokar خدمتكار nokar خدمتكار
Servant (in general),
```

Shepherd,	charnāhā چرواها
Shoemaker, cobbler,	سوچي mo <u>ch</u> ī
Shoer of horses,	الْبَنْدُ nāl-band نَالَبِنْدُ
Shopkeeper,	دوکاندار dūkān-dār
Silversmith,	سنار sonār
Snuff-dealer, tobacconist,	تمكيرا tam-kherā
Surveyor, paimā'īsh	جريب كش jarīb-kash , پيمايش والا vālā
Sweeper,	امهتر mih-tar , حلال خور halāl-khor
Sword-grinder,	$bar{a}$ باڙيا $bar{a}$ بير b
Sword-maker, {	سیاف shamsher-sāz شمشیر ساز, sayyāf سیاف
Sword-maker,	تیے گر te <u>gh</u> -gar
Tailor,	درزي darzī خياط, darzī درزي
Tanner,	جِمَّار chanbār, چنبار chanbār
Tent-builder or maker,	خيمه دوز khemah-doz
Tent-keeper or pitcher,	خلاصي <u>kh</u> alāṣ-ī
Thatcher,	چهپر بند <u>ch</u> happar-band, گهرامی
Tiler, bricklayer,	راج راز $r\bar{a}z$,کاماتی $r\bar{a}t\bar{t}$ ن راز $r\bar{a}z$
Tinker, brazier,	تْيَتَّى <u>tt</u> ha <u>tt</u> herā \ الم
Tinman or tinplate worke	
Tinner of pots and pans,	قلعی گر ķalæī-gar
Tobacconist,	تمكيرا tam-kherā
Tradesman (master),	استاد ustād کاسب kāsib کاریگر, ustād
Turner,	خرادي kharād-ī خراطي kharād-ī
Undertaker,	تابوت گر tābūt-gar تابوت
Varnisher,	الكهيرا lakherā
Watch or clockmaker,	ساعت ساز sā-æat-sāz
Water-carrier,	$sakkar{a}$ بهشتی, $bihisar{h}t$ -آ
,, (by bullock)	
Waterman, boatman,	ماجهی mānyhī کشتی وای kr <u>sh</u> tī-nān
Weaver,	جولائي jolā-hī , جولاهي jolā-hī چاد کن ي ين ين ين ين ين ين kū'iyar
Well-sinker,	چائة كن <u>ch</u> āh-kan كوئير
Wharfinger,	عَيْدِال ghatt-wār , گَهِنَّهِ أَرْ, ghatt-wāl

Ammoniac (sal).

Corundum powder (emery),

Crucible,

برقدع , barr-ha'ī کیاتی, barr-ha'ī Wheel or cart-wright, Whetter of swords, etc., bārr-yā Lil تا، کش tār-kash تا، Wire-drawer, tthatthera \ " Worker in brass, or mixed metals, بزدور mazdūr قلي, mazdūr Workman, labourer, ,, (superior), mistrī مسترى Wright or wheel-wright, 🕶 متصدّي, muḥarrir متصدّي, muḥarrir Writer, clerk (native), اهل کار ahl-i-kār اهل کار, mun<u>sh</u>ī

II.—BLACKSMITH'S, GUNSMITH'S, AND METAL WORK IN GENERAL. -

نوشادر noshādar

کو,نڈ kūrandd

mas مس , kū<u>tt</u> hālī كوتهالي

اهرن ahran ,نهائي nihā'ī ,سندان Anvil, ,, (small), sabar ساير دمكش dam-kash بهادِّجي, dam-kash Bellows (pair of, jāntā جانتا), دهونكل dhonkal دونكي donkī دهونكل ,, (small), لوهار T, loh-ar آهنگر āhan-gar Blacksmith, smith, kālbah كالده Bolt (screw), Borax, سوهاگا sohāgā bhed see Bore of a gun, bhed-nā لنحدنا To bore. دّهالنے کا سانچا <u>dd</u>hāl-ney kā sānchā قالب <u>dd</u>hāl-ney kā sanchā قالب دّمالنا ddhāl-nā To cast, to mould, دّمالوان ddhālā-hū'ā , دّمالا هوا , ddhālwān قمالوان Cast (metal), خزانه khizānah کوتهی, khizānah Chamber of a gun, etc., zughal زغال, $k\ddot{o}ls\ddot{a}$ کویلاً Charcoal, Chisel (small), a punch, جهيني chhe'onī چهيوني, chhenī

Damascene of swords, etc.,	johar جوهر
Dross, sediment,	پېوکڙ phoka <u>rr</u> پپو
Edge of a tool, etc.,	فهار dhār فهار
To give an edge, to sharpen,	مار نكالنا dhār nikāl-nā
Emery, emery powder,	كورند kūran <u>dd</u>
Ferule,	شام <u>sh</u> ām پون, <u>sh</u> ām
File (large), a rasp,	سوهن sohan
,, (double-edged),	كترا katrā
,, (fine)	mu <u>tt</u> hā القامة
,, (medium).	ريت ret , ريتي , ret
To file,	ret-iyānā ريتيانا, ret-nā
Filer,	retū'ā اريتوا
Filings (of iron in particular),	kharāshah خراشه
Filings, ret-ī ريت, ret ريت, <u>eh</u> i	توتي tūtan چور chūr جورا trā ايتوتي
Flaw,	پېوٿ phū <u>tt</u>
Forceps, nippers,	زنبور zanbūr زمبور
Forge,	اَنگیَّتَهَی ange <u>tt</u> h-ī
Furnace,	اگیٿي <i>"age<u>tt</u>ī</i>
Fusion,	پگهلاو piglātt , پگلات pighlā'o پگهلاو
Grate, stove,	āta <u>sh</u> -kadah كنش كدع
Graver, graving tool, style,	ميل سَلَ سَالُ سَالُ سَالُ سَالُ سَالُ سَالُ سَالُ سَالُ سَالُ
Gum lac (for fastening knife handles	, etc.), الك dozah وزر, dozah
Hammer (sledge),	گنین ghan
,, (middle size),	hatho <u>rr</u> ā ا
,, (small)	هتهوڙي hatho <u>rr</u> -ī
Handle to fit tools (loose),	هتی hat-ī
To heat (make red hot)	تاؤ ترينا tā'o denā
Hot (red)	تار و tā'o
Iron, see different sorts under "Meta	ıls."
Iron (made of iron)	آهني āhan-ī لوهيا
Laboratory, manufactory,	كار تخانه kār-kklānah
Lac (gum),	الك lākh لاك , lāk لاكب dozah دوزه

Lacker, varnish,

اکیہ lakh کی, ro-ghan کی, lak

```
کرچها korchhal کرچهل, korchhal
Ladle (iron),
Lamp,
                                             chirāgh $1, -, dinā 1, s
                                        قفل kufl قلف, kulf قلف, kufl قفل
Lock,
 ,, (staple for),
                                                          سکری sikrī
Mould (a rough cast of anything, )
                                                  ڏهانحه ddhānchah
      afterwards reduced to shape),
                                        sānchā اچناس, sānchah مخناس
,, (bullet),
,, (casting box),
                               دهالنے کا سانچه ddhālney kā sānchah
                                                     kīlā كىلى, kīl كىلا
Nail,
Nippers, pincers,
                                        chimttā حيمتا, chīmttā حيمتا
                                                         dantī دانتي
Notch (also cog of a wheel),
                                             مانتی پڙنا dāntī pa<u>rr</u>nā دانتي
To become notched,
                                       rac{dd}{dt}hibl{ar{i}} . ڙهبريar{i}, rac{dd}{dt}hibar{i}
Nut (a),
                       قمبري يا قمبلي كش <u>dd</u>hibrī yā <u>dd</u>hiblī ka<u>sh</u>
Nut-key,
                                        chimttā جيمتا, chīmttā
Pincers, nippers,
Poker.
                                          انگارتی angār<u>tt</u>-ت مول
Polisher of iron (in particular),
                                                   kharāshah an i
Polisher, filer, or furbisher,
                                                          ريتوا retū'ā
                       سمبها sumbhā , چهيوني , chhe'onī , چهينې
Punch (a),
                                          سوهن so-han كانوس
Rasp, large coarse file,
                                                               tā'o 's
Red-hot,
                                                    تارً دينا tā'o denā
    ,, (to make),
                    رال rāl , دامر (ddāmar (also cloth) , كرايل, rāl
Rosin,
Sal-ammoniac,
                                                     نوشادر no<u>sh</u>ādar
                                       قينچى kenchī مقراض
Scissors.
                                                بينچ pench پينچ, pech کانده kāblah
Screw,
Screw-bolt.
Screw-driver.
                                                      marorr-i sign
                                                        phokarr 35 963
Sediment, dross.
 Shears.
                                                             kāt-ī , is
                         كاتى كلار، kāt-ī-i-kalān بېۋى كاتى كلار،
 ,, (large),
```

 $kh\bar{a}k$ -and $\bar{a}z$ انداز , belShovel. bel-chah and ,, (small), small mattock, or spade, Sledge-hammer, (medium) hattorrā (large) ghun گهن (large) هٿوڙي hattorr-ī ,, (small size), رانگ , rāng جوڙن, rāng جهال jhāl Solder, To solder, jhālanā النا Stove, grate, آتش کده ātush-kadah Style (sharp-pointed graving tool), mīl Ju Tap for screw cutting, mansūt ______ $san \underline{dd} ar{a} sar{i}$ سنگاسی, $san sar{i}$ Tongs, au-zār اوزار, hatyār هتيار" Tools, instruments, جليري jallerī Trough (water), روغی roghan الک lakh لکے Varnish, lacker, مانک bānk Vice (a). $,, \; (large \, bench), p ar{a}k \, sain_{rr} s ar{i}$ سنڙ کي بانک $mex \, k ar{i} \, b ar{a}nk$ ہيز کي بانک هاته کی بانک hatkal هتکل , hāth kī bānk ,, (hand), پهولي phālī ,پتي phālī جليري jalerī Washer, Water-trough, Wedge (small), or cold chisel, جهيني chhe'onī چهيوني, chhenī Wedge, pachar ~

III.—BRICK AND TILE MAKING, WITH THE IMPLEMENTS AND MATERIALS.

Basket (large),

,, (a),

,, used as a measure,

(large and flat),

Brick (adj.), of brick,

ڌلا ddalā

khishtī , خشت

ابنت ntt اينته intth اينته rntth

چوپالی اینته chaupālī īntth چوپالی

jhāl الجيال

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فرشتي ابنته farshī īntth
                                 پیلی اینقه pīlī īntth کهنگر khangar
,, (half burnt),
                                              pakkت in\underline{t}th پکی اینتj
  ,, (kiln burnt),
                                            كَچّى اينته. ka<u>chch</u>ī īn<u>t</u>th
  ., (sun dried),
                                      كم پكى اينته kam pakkī īntth
  " (under burnt).
     (well burnt),
                                              بكي أينته pakkī īntth
                                   جهاوان jhāmān جهامان, jhāwān
     (vitrified),
                                                         روڙا rorrā
Brick-bat.
Brick or potter's kiln,
                                                            āwā 1.T
Brick-kiln (inclosed).
                                           ىيى bhattah بىت , bhattī بىت
                                        pazāwa يزاود, pajāwa يجاود
          (native, open or clamp),
                                      مانيا اينته كا sānchā intth kā
Brick-mould.
                                                        mistar ====
             (strike or stick of a),
Brick machine, charkhī īntth banāney kī چرخی اینته بنانے کی
                               كمهار kumhār خشت يز kumhār
Brick-maker,
                                             khorā 1, ss, kho'ā Tiss
Bricks (broken),
Bricks (instrument for cutting),
                                                       basūlī بسولي
                                                          د.ل ddol "
Bucket (leathern),
                                          چرس <u>ch</u>aras , پروها
,, (large),
                                                      دولچي ddolchī
,, (small),
                                                         للله يّ bālttī بالله
 ,, (wooden), or pail,
                                        اکے rākh خاکستر, rākh
Calx, ashes,
                                      گاڙي or gā<u>rr</u>ī گاڙي
Cart (wheeled carriage of any kind),
                                      گاڙي د. بلدي gā<u>rr</u>ī do baldī
  " (two bullock),
                                    گاڙي جو بلدي gārrī chau baldī
  " (four bullock).
                                                          mitti, ....
Clay, earth, soil,
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Clay (stiff), potter's clay. چکنی مٿي علي chiknī mittī ., (tempered), mortar, garalis gil-gāh گل گاه " pit, دهيلا <u>ddhelā</u>, جهار chhār Clod of earth, Cow dung (dried), used for fuel. upla le, khāk خاك, mittī or mattī مقتى Earth, soil, dust, ,, (potter's), clay, چکنٹی مٿي مٿي chiknī mattī gharrā الله Earthen vessel (large), ,, ,, (small), هانڈی hān<u>dd</u>ī Earthen pan (large), nand ناند کونڈا kūnddā ,, ,, (small), Fagot, fuel, بلهي balhī بلهي چوپالی یا فرشی اینته <u>chaupālī, yā farsh</u>-ī īn<u>tt</u>h Flat tile. khaprā اکیہ کی khaprel کیے Fuel. سوختهٔ sokhtah ایندهن īndhan آوا ānā بهتى bhattī بهتى Furnace, brick-kiln, مأنجهي mänjhī منجهي Hand-barrow, Heap, stack of bricks, chuṭṭā حِتّا وهوب ghām گهام dhūp دهوب Heat of the sun, أوا pajānah بيجاوء, pajānah بيهظى, ānā Kiln (brick or potter's), Kiln-dried, or kiln-burnt brick, یکی اینته pakkī īntth یکی دول <u>dd</u>ol Leathern bucket. دولچي <u>dd</u>ol<u>ch</u>ī ,, (small), ,, (very large), چرس <u>ch</u>aras, يروها prohā يور with trunk or spout, mott -, kūrrā 155 Litter (cattle) used as fuel, kachrā المجا, kūrrā المجا " (rubbish), khād کیاد, khāt کیاد Manure. Mattock, delve (see Phā'orrah), belchah asi چاك <u>ch</u>arkh چرخ, <u>ch</u>āk Mill-wheel (potter's), kīcharr Mire, mud,

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Mould (brick),
                                        سانچا اینقه کا sānchā īntth kā
                                                               gārā 1,15
Mud, tempered clay, used as mortar,
                                      ر phā'olah كاورة, phā'orrā إياورة
Phā'orrah, digging tool, mattock,
                                           سقستل ماموتی, bel بیل
                             رهت rahatt چرخ, rahatt چرخ, rahatt
Persian wheel,
Plaster (mud and chaff),
                                                              gārā 1,5
                                                          kumhār , Las
Potter.
                                               جکنی مٿي مٿي <u>ch</u>iknī mi<u>tt</u>i
Potter's clay, or earth,
,, wheel,
                                               چاك <u>ch</u>arkh چرخ, <u>ch</u>āk چاك
                                            بهون bhunan گيرني, bhunan
Pulley for a well bucket, (چرس),
                                            لا، bart or barat يات, lā'o
  ,, (rope for),
                                                  رسی rassā رسی
Rope,
                                            الر bart or barat برت bart or barat
      (thick) for a well pulley,
                                             kachrā \, kūrrā \;
Rubbish, litter,
                                         reg بالوb\bar{a}l\bar{u} , پگڪ, ret
Sand.
                                                  retlā بالوا, bālū'ā ابالوا
Sandy,
                               بيل bel بيلچه belchah کجودنی khodnī بيل
Spade, shovel,
                                            \underline{kh}قلک انداز \underline{kh}قه خاک انداز
                                                    mi<u>tt</u>ī or ma<u>tt</u>ī ق
Soil, earth,
                                              چکنی مٿي <u>ch</u>iknī ma<u>tt</u>ī
 " (stiff), potter's clay,
                                               چى مٿي ka<u>chch</u>ī ma<u>tt</u>ī
 ,, (light or loose),
                                                             <u>chattā</u> تا
Stack of bricks.
                                                          bichālī چالي
Straw,
                                                           mistar ....
Strike, a stick for smoothing bricks in the mould,
                                               دهوپ ghām گهام, dhūp
Sun's heat,
                                                kachrā المج kūrrā ١٥٠٤
Sweepings, rubbish, etc.,
                                                            hauz في
Tank (small), a cistern,
                                       تال tālā'o تالاب tālāb تال, tāl تالا،
,, pond,
                                                               gārā 1,5
Tempered clay, mud-mortar,
                                     نريا nariyā (كويلي), nariyā
Tile.
                                نريا قلفيدار nariyā-ķulfīdār نالي nālī
 ,, (round or lock),
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Tile (flat and broad), کھیے یل khaprel کھیے ا Tiler (a), (also a mason), kulatkār کلتکار, sel-band سیل بند کھیے پل khaprail Tiled (house), khaprail kī chhat چهريل کي چهت Tiled roof, تغار täghār Trough for water (in the ground), نالي ، nālī Tubulated. Water-bag (leathern), دِّولَ <u>dd</u>ol<u>ch</u>ī دُولچى , <u>dd</u>ol mashk Lang ,, (leathern) for a man's shoulder, Water-bags of leather for bullocks, camels, or mules, pakhāl كيال Water-course, ravine, also a canal, nālā YU كوا kū'ā كونوا kān-nā كوا kū'ā Well. چاك <u>ch</u>ar<u>kh</u> چرخ, <u>ch</u>āk Wheel (potter's), رهت rahatt هرت haratt .. (Persian), Wooden bucket. بالتي bāl<u>t</u>tī

IV.—BRICKWORK, MASONRY, BRIDGE BUILDING, WELL-SINKING, AND BUILDING IN GENERAL, WITH THE TOOLS AND MATERIALS.

Abutment. الله بيروني pāyah-berūnī dīnuk کیک, dīmuk کیک Ants (white), Arch (an). معراب miḥrāb, miḥrāb ,, (crown of), rās-i-miḥrāb باس محراب " (spring of), شروع ِ محراب <u>sh</u>urūæ-i-miḥrāb ,, (turning of), تعمير محراب taæmīr-i-miḥrāb ،, (centering for), <u>dd</u>haulā يُّهُمْ ,دُّاتُ , <u>dd</u>ā<u>t</u>t قالب , ķālib , قمولا Arch with versed sine flat or small, kubbah قنه كماني kamānī, محرابي miḥrābī كناره kinārah Arched. Bank, brink, edge, دهانگ ddhang " (steep and precipitous),

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Banks of a river (high and steep),
                                                    arrārrā !!!!
Barrel.
                                                        pipā Lu
Base, basis, foundation, binā بنياد , pāyah بايه , pāyah بنياد bunyād بنيو
Base, or foot of a pillar,
                                                     kursī , کسے
                                                 کنگره kangurah
Battlement.
Battlemented,
                            kangurah-dār کنگره دار, kar \underline{kh}
                       أميتير <u>shāh-tīr</u>, شاء تير <u>shah-tīr</u>, لتها
Bean,
جوكا Block foundation, chaukon kī bunyād جوكا, chaukā جوكا
Bond, wall's breadth.
                                                         در; darz
                                          darz bachānā الله الله الله الله
      (to preserve the),
Bonding,
                                                        band بند
برمه زمين كا Boring instrument (for the ground), barmah zamīn kā
                                           تلكي talhettī, تلهتي talhettī
Bottom (the).
   ,, (tool for excavating at bottom of wells),
                                                    jhām جهام
Brick (a).
                                        ابنت , intth خشت khisht
                          اینتگاری inttgārī ,خشتگاری khisht-kārī
Brickwork.
Brick and mortar work,
                                   حونائی عارت chūnā'ī æimārat حونائی
                                                 سرخي sur<u>kh</u>ī
کهرنجا kharanjā
    (pounded for cement),
     on edge floor or pavement,
                                                 ىل pul بول pul
Bridge (a),
     (arched),
                                  بل معراب دار pul-i-miḥrāb-dār
    (draw),
                                    بل تخته دار pul-i-takhtah-dar
                                           يل سنگين pul-i-sangīn
    (stone),
    پل جهولي کا pul jhūley kā , پل آويزان, pul jhūley kā پل جهولي
                                            پل چوبتي pul-i-chobī
     (wooden),
                                                    kinārah silis
Brink, edge, margin,
                                                   pushtah amis
Buttress, butment,
                  صندوق واسطے بنیاد کے sandūk nāstey bunyād ke
Caisson,
for the ceilings of rooms,
                                                   khirrki Ses
Casement, window,
                                     آنكڙي ānkrrī انكسي anksī
Catch, hook,
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kharanjā 🛁 Causey, pavement. chhat band بند sakf سقف, sakf Ceiling of a room, etc., جهت گيري chhat-gīrī (also the roof), ,, (cloth or canvass), chhat ==== To ceil, <u>chhat paṭṭānā</u> or lagānā كيبت يقانا يا لگانا Cement, mortar, maṣāliḥ مصالح, āhak عني, gach قالب بالتارية , قات بالتارية , قام التاريخ , <u>dd</u>haulā بالتارية , <u>dd</u>ātt قالب , ķālib Chaff, husk (used in making mud-mortar), bhus اليس تانكى <u>tt</u>ānkī چهينى Chisel (stone-mason's), <u>ch</u>he'onī چهيوني, <u>tt</u>ānkī تانكى Clay (tempered mud and chaff), گارا gārā کیگل, gārā کارا چکنی مٿي <u>ch</u>iknī mi<u>t</u>tī چکن " (potter's), كهاديّ khādī گزي gazī گاڙا, khādī Cloth for ceilings, Column, pile, pillar, استميه istambh ,ستون sutūn رکن رکن رکین rukn-i-rakīn یایه ستون کا pāyah sutūn kā ,, (strong, solid), " (base of), نل nal ينالا par-nālā بي نالا , nal Conduit pipe, ,, drain for water, morī s, منڈیر mundder منڈیری, mundder Coping of a wall, تورا marmā مروا, <u>tt</u>orā تورا Corbel, قور <u>dd</u>orī , <u>قوری</u> Cord, string, ناسک nāsuk Corner. ,, (to cut off a), ناسك مارنا nāsuk mārnā کنگی kang-nī کنگنی kang-ī Cornice, pediment, a<u>rr</u>tālā كاڙ تالا Counterscarp, curtain, Course, layer, raddā 12, charkhة jham kة کی جہام Crab or windlass, Crane or jack, دمكلا "dam-kalā", مسلوب rās-i-miḥrāb باس محراب Crown of an arch. Cubical, or block) چوکا chaukon kī bunyād, چوکون کی بنیاد chaukon kī bunyād, چوکون foundation, Cubit $(3\frac{1}{2} \text{ fathoms})$, wām وأم bām بلم bam بم

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نيم چک nīm chak جاکني jākhan
Curb under a well ring,
                                             دها, dhār الله dhār الله dhārā
Current, stream.
                        مرده دیدار کا nardah dīnār kā ابتالا
Curtain wall,
                                         pushtah دشته, bāndh عانده
Dike, embankment,
                          تبرة ا ayntthā اينتها, teddhā اينتها, tehrrā تبرة
Distorted, twisted,
Drain.
                                                          mori sign
                                      يل تخته دار pul-i-takhtah-dār
Drawbridge,
Eaves of a roof,
                                      \underline{tt}orar{a} اولتى ol-tar{\iota} , اولتى ، o-rar{\imath}
    extending some distance beyond the
                                                        دهایا ddhābā
         wall as a place to sit under
Edge, bank, brink,
                                                        kinārah عنا, كنا
Efflorescence of salt, etc., on walls,
                                                            نوني nūnī
Embankment, dike, buttress,
                                          دشته pushtah , بانده
                                                      كبودائ khodā'ī
Excavation.
Excavating tool for bottom of wells,
                                                         jhām جهام
                                             قوس بيروني kaus-berūnī
Extrados.
Fathom, the space embraced by the arms extended, bam بام, bām بام, bām
                         ehouras برابر, hamnār جورس, hamnār
Flat, adj.
                                        کھیے پل khapra کھیے, khaprel کھیے
Flat tile.
                 جويالي يا فرشي أينته haupālī, yā farsh-ī īntth چويالي يا فرشي
                                            ahlā اهلا sailāb
Flood.
                                                    khūr-āb
  ,, gate,
                                                        manzil Ji
Floor, story (of a house),
Flooring, pavement,
                                                  ته tah فرش, tah ته
Foundation, basis, bin\bar{a} بنياد buny\bar{a}d بنيو, p\bar{a}yah بنياد
                                                        chaukā V
             (block or cubical), (chaukon kī bunyād چوکوں کي بنياد
                                        کوئی کی تبنیاد kū'ī kī bunyād کوئی
             (well),
Gate (flood).
                                                     khūrāb في ات
                                                       pushtah مشته
Glacis,
                                           يتهري patthrī جري, patthrī
Gravel, coarse sand,
                                                     badar-rau ,,, sy
Gutter, kennel.
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Hammer (mason's),	مارتول mārtol هتورًا hato <u>rr</u> ā
Hand-barrow, manjhī , mān	مارتول مقدّرة متوزّا hator <u>r</u> ā مارتول مقدّرة مانج iyh ة هاته گازّي مانجهي iyh ة مانجهي
Haunches,	أطراف atrāf
Heap, <u>dd</u>	الم attam , قهيري herī قهيري, attam
Hod for mortar, a wooden trough	, ka <u>tt</u> h <u>rr</u> ā ا
Intrados,	قوسَ اندروني ķaus-andarūnī
Jack, crane,	مسلوب maslūb مسلوب, dam-kalā كمكلا
Joint,	جوڙ jo <u>rr</u> ج
Joist, beam,	جاَئزَ jā'iz, ادّم
Kennel, gutter, drain,	بدررو badar-rau
Key-stone,	dā <u>tt</u> ٿاء
Ladder, steps, also stairs,	$zar{\imath}nah$ رينه, se $\underline{rr}har{\imath}$
,, (rope),	kamand Sanard
Latch of a door,	گڙا, ga <u>rr</u> ā کن <i>ڏي, ga</i> rrā گڙا
Lath (a), battī bāns kī بانس كى	بتّي لكڙي كي كي ki , $batt\bar{\imath}$ $lak\underline{rr}$ i
Lathe (turning),	ي <u>kharāt</u> خراط, <u>kh</u> arād خراد
" (wheel of),	pahiyā kharād kā پہیا خراد کا
Lattice, trellis-work,	جالى jālī, چلوان chilnān
,, skylight,	$t\bar{a}b$ - $d\bar{a}n$ تابدان
Layer, course,	raddā ای,
,, the work of a day,	رد raddā ارد
Leaf of a door, etc.,	كيوار kenā <u>rr</u>
Level, adj.	هوار hamnār برابر
To level, barābar karnā	هوار کرنا به hamwār karnā برابر کرنا:
,, (by means of water),	پنسال کرنا pansāl karnā
Level (a water),	ينسال pansāl
" (mason's),	<u>ٹ</u> کنٿي <u>tt</u> ikan <u>tt</u> ī
Lime (slacked), v. To slake,	بهركا bharkā بهركانا bharkā
" (common),	chūnā حيونا
,, (white, for whitewash),	بَلْعَى ķalaæī
Line (tracing),	سوت sūt
Lock (of a door, etc.),	قَعْلَ kufl قِلْف kufl بتالا tālā تالا

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تہ کش tīr-kash
Loop-hole,
                                                      Shatorrā 1; a
Mallet (mason's or)
                                                       ( mogrā ($,...
    stone-cutter's),
                                          سنگ مرمر sang-i-marmar
Marble.
Margin, brink, bank,
                                                        كناره kinārah
                                                      راج rāz راز, rāj
Mason,
   معمار miæmār بسنگ تراش, miæmār بسنگ
Mason's (stone) chisel, \underline{ch}he-n\bar{\imath} چهيوني, \underline{ch}heo-n\bar{\imath} ٿانگي, \underline{tt}\bar{a}nk\bar{\imath}
                                                        هتوڙا hato<u>rr</u>ā ا
,, hammer,
                                                      ,, level,
                                                        hanjār jisis
 ,, rule,
                                   سول sahol سکول sahol سهول, sol
        plumb-line,
سنگ معماري sang-miæmārī سنگ سازي, sang-miæmārī
                                          حِتَائ <u>chattā'ī</u> بوريا
Mat, matting,
Mat-maker,
                    حِتَّائَ وَالا <u>chattā</u>' رَبِر يا باف būriyā-bāf بيريا باف
                                                      maṣālih مصالح
Material (prepared mortar or cement),
                                                               gaz $
Measuring rod,
                                      nāpney kā fītah ناينے كا فيته
Measuring tape,
                                maṣāliḥ مصالح, āhak آهڪ, gach
Mortar, plaster, cement,
                                                          ukhli , Los
      (wooden),
                                   جونے کی چکی chakkī چونے کی
   ,, (mill),
                                               ناب nāb جهري jhirī
Moulding,
                                                     بهادری bahādrī
    ,, (ornament),
                                     الله ā-lā بطاق بقية , طاقيه بقارة بقيرة بقيرة
Niche, recess in a wall,
                                                         kuchhā Les
Offset,
                                               kuchhā denā ليع الح
  ., (to leave)
                                  لتهرا katt'h-gharā كتهركي, katt-harā كتهرا
Palisade, railing,
                                          موڙية morrerr , فصيل
Parapet,
                                                              ottā اوٿا
Partition wall, a screen,
                                        كهرنجا kharanjā فرش, kharanjā
Pavement, causey,
                                                      كنكنى kang-nī
Pediment.
                                                           usārā اسارا
Peristyle.
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Pier,
                                        الله اندروني pāyah-andarūnī
Pilaster,
                                                         æulin ...le
كڙي ka<u>rr</u>ī بلي ballī گارهني كي كڙي ka<u>rr</u>ī گارهني كي كڙي, ka<u>rr</u>ī گارهني
                                                     muchāk
 ,, driver, or engine,
استمبه istambh ستون sitūn بيلپايا, pīl-pāyā النَّه , sitūn استمبه
  ,, (base or foot of a), pā-yah sutūn kā کرسی, kursī پایهٔ ستون کا
Pin (tent),
                                           ميخ mekh , كهونتى khūnttī
Pin or wooden peg,
Pipe (conduit), spout,
                                                 نل nal بنالا panālā نل, nal
                               پاٿ takhtī تختى, takhtah تختى, pātt
Plank, board, shutter,
                                           تخته بندي takhtah-bandī
Planking, boarding,
                                                ga\underline{ch} گيچ, \bar{a}hah
Plaster, mortar,
                                              گارا kah-gil کہگل , gārā اگارا
   ,, (mud, and chaff),
Plastering,
                                                 استركاري astar-kārī
Plastering tools (see Trowel).
                              ساهول sāḥūl سهول, sahūl ساقول, sāhūl
Plumb-line, plummet,
Pole.
                                                            بلی ballī
                                  ,, (ridge),
                              قالاو tālā'o ,تالاب tālā'o ,تب گير
Pond, tank,
                                                      istambh استمية
Post (column),
                                ka<u>rr</u>ī بلى, ballī ك<u>ڙي, khumb</u>
 " (wooden),
                                            دهن نوتا dhan-no<u>tt</u>ā دهن
  ,, (king),
Pounded brick for cement,
                                                       sur<u>kh</u>ī سرخي
                                              وخكيا pankhā
Punkah (large fan suspended from the roof),
                                          k\bar{a}n\ sang \bar{\imath}\ k\bar{\imath} کان سنگی کی
Quarry,
Rafter.
                                            saķ-fī سقفي, ka<u>rr</u>ī كڙي
Railing, palisade,
                                 كتبرا ka<u>tt</u>'h-gharā \کتيگير, ka<u>tt</u>-harā کتبرا
                                                             nālā Yli
Ravine, water-course, canal,
                                                   الا ālā طاق, ālā كآل
Recess in a wall for a lamp, etc., a niche,
                                                   طاقعه tākchah
                                        كوتهي kotthi خزانه
Repository,
```

Reservoir, cistern,	حوض hauz
Riddle, sieve, screen,	chhalnī چهلنا, chhalnā چهلنا,
River,	جهلنا <u>ch</u> halnī , چهلني , <u>ch</u> halnā چهلنا دريا (small) <i>naddī</i> , ند <i>ي</i> (large) <i>daryā</i> ر
Rod (measuring),	gaz '\$
,, (,, two feet),	گز دو فقا gaz do fuṭṭā
,, (,, ten feet),	گز دس فقا gaz das fu <u>tt</u> ā
Roof,	sakf بام bām بام, chhat چپت, ch
" (sloping two ways),	do or dū-challah في حلم
	جار چله chau-koni چوکوني, chār-challah
,, (terraced),	پکی چیت pakkī chhat
,, (thatched),	chhappar kī chhat چهټر کی چهت
,, (tiled),	کھپریل کی چہت khaprel kī chhat
" (to roof with tiles),	pa <u>tt</u> ānā بايا,
Roofing with tiles,	pa <u>t</u> tā'o , الله
Round, or lock-tile,	أُرِياً قلفيدار nariyā-kulf īdār
Rubbish, sweepings,	المراثة kachrā المراثة
Rule (mason's),	hanjār, leio
Sack-cloth for ceilings, can	
Sally-port, wicket,	کهٰڙکي khirrkī کهٰڙک
Sand,	ریگ reg ریگ
,, (coarse), gravel,	بيري bajrī پنهري patthrī
Scaffold, stage,	daunjā 🛁
,, (for criminals),	$d\bar{a}r$, is
Scaffolding,	sakf سقف, pārr إلى sakf
,, (light wooden)	# 1
Screen, partition-wall,	٥ <u>#</u> ā اوتا
(chhai	أربي الم بيانا hainā الميار , chhannā الميار , chhannā
,, riddle, sieve, {	أركباني <u>ch</u> halnā, چهلنا, <u>ch</u> hannā چهناني مغربال مغربال مغربال مغربال معربال معربال معربال معربال معربال
Shovel, spade, (small, belche	انداز بيلي bel بيل khāk-andāz بيل bel ايداز
Shutter (fold of), or door,	کيواڙ <i>kewā<u>rr</u></i>
Shutter, a board,	يات pā <u>tt</u>
Skylight, lattice,	تّابدان tāb-dān ,گواچه

```
(To slake, bharkānā نيركان), bharkā ك
Slacked lime,
                                                  du challah als .s
Sloping roof (two ways),
      ,, (four ways), <u>ch</u>au-konī چوکوني, <u>ch</u>au <u>ch</u>allah چو چا
Space between the arms stretched
                                          بم bām بأم, bam بأم, bam بام
  out, a fathom,
                                   kh\bar{a}k-and\bar{a}z انداز, bel
Spade, shovel,
Splay,
                                                           khum >
نل ٰSpout, pipe, tube, <u>ttontt</u>ū , <u>ttentt</u>ū , <u>ttontt</u>ū , <u>ttontt</u>ū نل ٰ, <u>nal</u> نل
  ,, (for water),
                                          بنالا parnālā برنالا parnālā بنالا
                                     شروع محراب <u>shurūæ-i-miḥrāb</u>
Spring of an arch,
Square, <u>chaukonā چ</u>وکور, <u>ch</u>aukor چوکون, murabbaæ جرتب
Square (a),
                                                         گونيا gūnyā
Stairs, ladder, steps,
                                          سيڙهي se<u>rr</u>hī زينه
                                                عار عقف, pārr إلى sakf
Stage,
                                          ميان machān تانڌ
  ,, (light wooden),
  " (moveable),
                                                       سندلي sandli
Steps, ladder, stairs,
                                          زينه تى zīnah سىڙھى se<u>rr</u>hī
                                            يٿي patthar سنگ sang
Stone,
Story (upper),
                                                بام bām سقف, bām بام
                                              chau-maḥallā
Stories (house of several),
                                            ينج منزله panj-manzilah
-,, (house of two),
                                                دو منزله do-manzilah
Stream, current,
                                             دهار dhārā دهارا, dhār
                                                       kachrā 1,5
Sweepings, rubbish,
Tape (measuring),
                                       ناینے کا فیته napney ka fitah
Tenter, catch-hook,
                                         آنكڙي ānk<u>rr</u>ī انكسي
Terraced floor,
                                     پکا فرش pakkā far<u>sh</u> کچ
Tesselated.
                                                   muæayyan ....
                                        كبيريل khaprā كبيرا, khaprel
Tile (flat).
                              nālī نريا قلفيدار nariyā-ķulfīdār نالي, nariyā-
 ,, (round or lock),
                                                        pattānā القا
Tiling, roofing with tiles,
                                                        golak کولک
Till, drawer,
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Tools, instruments.
                                            هتيار hatyār اوزار, hatyār
Tools (plastering). See Trowel.
Tracing-line,
                                                           sūt ====
                                                      ىتوتى pattotan
Transom.
                                           جالي jālī چلوان chilnān
Trellis-work, lattice,
                                               كني kannī كرني kannī
Trowel.
  A light wooden trowel used for tap-
     ping plaster and flooring while the \{thar{a}par{\imath} بنهائي , thapkar{\imath}
     chūnām or plaster is drying,
  A light wooden tool used in dressing the plaster work, chīrnā نجيرنا
  A sort of wooden trowel, but thicker and
                                                    عمادها samādhā
     heavier; a sort of short bar with a flat side
     used in smoothing and rubbing the chunam,
  A very small bladed trowel used in plas- nelā-majhūlā نيلا مجهولا
     tering, for the fine mouldings, etc.
  An iron tool with a sharp point used in plastering,
                     قيانچي kenchī chhat kī قيانچي چهت کې, kenchī
Truss.
Tube, spout,
                                      تعمير محراب taæmīr-i-miḥrāb
Turning of an arch,
                                         تعبيًّا, tehrrā البيَّدُها, tehrrā
Twisted, distorted,
                                  بادريه bād-kash بادكش bād-riyah بادرية
Ventilator,
                                           خته بندی takhtah-bandī
Wainscot, boarding,
                                            ديوار dīnār ديوال, dīnār
Wall.
                                                             ottā U.
     (a partition), screen,
     (breadth of),
                                                          bhīt سي
                                                            nonī نوني
     (efflorescence on),
                                                        دهایا ddhābā
     (extending outwards for sitting under,)
                                                           raddā 13,
     (layer of), a day's work,
                                      رطاق tākchah طاقع , طاقع , ālā 🏋
     (recess in), a niche,
                                                       بنسال pansāl
Water-level,
                                            ينسال كرنا pansāl karnā
          (to level by means of)
                                                          mori sign
Water-pipe, drain, conduit,
```

 $\underline{ch}\bar{a}h$ کوا, $k\bar{u}'\bar{a}n$ کوا, $k\bar{u}'\bar{a}$ Well (a), کوئ کی بنیاد kū'ī kī bunyād " (foundation), man ghattā گهٿا ,, (wall round), د.ل ddol ا Well-bucket (large leathern), ,, ' ,, (small) دولچي <u>dd</u>olchī jhām جهام Well-sinker's shovel, جاکهن jākhan, نیم چک nīm-chak Well-ring (curb under), Well (shaft of a), كوٿھي ko<u>tt</u>hī Wells (tool for excavating at the bottom of), jhām حيام دىمىك dīmak دىرك dīmak White ants, White lime for white-wash, kalaæī قلعي سفيدي safedī چونائ chūnā'ī Whitewashing, جِهانا <u>ch</u>huhānā چونا لگانا <u>ch</u>huhānā چهانا To whitewash, سفید کرنا safed karnā khi<u>rr</u>kī ر Wicket, sally-port, جرخي charkhī Windlass, crane, كهڙكي "khi<u>rr</u>kī ,باري bārī دريچه Window, ukhti [كهلي Wooden mortar, ياڙ pārr إسقف ,, stage, tāndd تاند , machān ,, ,, (light), ,, ,, (movable), سندلي sandlī ,, trowels (see Trowel).

V.—BUILDINGS AND DWELLINGS OF VARIOUS DESCRIPTIONS.

Antichamber, Aqueduct, Area, court, Arsenal, Back-yard, قيوڙهي <u>ddewrr</u>hī ,پيشطاق pe<u>sh-t</u>āķ ,پيشطاق كاريز nahr ,آبگور āb-gor ,نهر nāhr ,قريز آنگن iḥāṭah ,احاطه iḥāṭah ,قارغ قngan سلاح خانه سلاح خانه silāḥ <u>kh</u>ānah ,كار خانه kār <u>kh</u>ānah بچبواڙا

```
Balcony, upper room,
                                          الا خانه bālā-khānah مالا خانه
,, gallery, porch,
                                                  dahlez was
Balustrade, هونيرا , katterā كتابكر, katterā كتابكر, katterā كتابكر
Bank (for money),
                                                  kotthī , كاتي
                           ambār-khānah انبار خانه, kotthā كوتها
Barn, granary,
Barrack.
                                  حهاونی chhā'onī بارک, chhā'onī
Bastion, bulwark, tower,
                        خوابگه khrāb-gah خواب گاه khrāb-gah
Bedroom, dormitory,
Bench, elevated seat, or platform,
                                              chabūtrah s
Building in general (a),
                                   makān كاري, æimārat عاري
Burying-ground,
                             گورستان goristān قىرستان , goristān
Cabin, hut,
                            جيونيڙا jhonprrā , جيونيڙي
Canal (subterranean),
                                                    کاریز kārez
                                               دير
چهاوني <u>ch</u>hā'onī
Cantonment.
                           garrhī گڙهي, ķil-æah قلعة, kott
Castle, fort,
Cavern, cellar,
                                                 bhaunrā \بيونرا
                                            tah khānah خانه tah
Cellar, vault,
                                     كوڙي kamarā كمرا, kotthrī
Chamber.
Choultry, Hindū caravānsera'e,
                                               chāwrrī حاوڙي
Church.
                                          گرچاگي girjā-ghar
City,
                                                    shahr ....
City-walls,
                                          شهر يناه shahr-panāh شهر
                  حِهْ بِحِهُ hauz حوض , chah-bachah جَهْ بِحِهُ
Cistern, vat,
College,
                                              madrasah مدرسه
سلك ستون كا salk-sutūn kā نظام عاد Colonnade, nizām-i-æimād سلك ستون كا
آنگن angan احاطه Compound, enclosed space round a house, iḥāṭah احاطه, āngan
Conduit, pipe for water,
                                                    panālā vi
                            جهوندِ" jhonprra جهوندِي , jhonprra
Cottage, cot, hut,
                          التيان iḥātah الكي , āngan كالم , utthān التيان
Court, area,
                                               انگنائ anganā'ī
.. (inner)
  ,, (covered)
                                                    دالان dālān
                Court-vard,
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Cupola,	گنبذ gumbaz , قبّ kubbah
Dining-room,	suḥafah مغغت
Dome,	gumbaz گنبذ, ķubbah قتّه
Dormitory, bedroom,	$\underline{k}\underline{h}$ 'ā b - g ā h خواب گاه
Drain,	موري morī , ناله nālah , نالي
Dwelling,	گير ghar خانه, ghar کير
,, (temporary),	ويرا derā , ڏيره derā , قيره
Fort, castle,	$gu_{\underline{rr}}h\bar{\imath}$ گڙ $gu_{\underline{rr}}h$ گڙهي, $ko\underline{tt}$
Fortification,	kalæah asti
Fortress, fortified place,	محار hiṣār بالاحصار, hiṣār
Gallery, hall,	ai-nān ايوان
,, portico,	$rar{r}-nar{a}k$ ریواق
,, balcony,	bālā khānah نالا خانه
Granary, barn,	م. منابر خانه مambār- <u>kh</u> ānah انبار خانه, ko <u>tt</u> hā
Grave-yard,	گورستان goristān قبرستان, goristān
Guard-house, na	ubat khānah نوبت خانه, chaukī چوکی
Gutter, kennel, drain,	موري morī بنالي nālī
Hall, a covered court,	دالان dālān
" (outer),	در دالان dar-dālān
,, dining-room,	suḥafah aż
" or gallery supported or	n pillars or columns, ai-nān ايوان
	گُبُر ghar خانه ko <u>tt</u> hī کوٿهي, <u>kh</u> ānah
,, mansion,	haneli حويلي
" (with sloping roof), a	sort of villa, banglah بنگله
,, (ware),	
Hut, cottage,	
Inn, place for travellers,	sarā'e سراي
Inner court,	انگَنائی anganā'ī
Jail, prison,	تيد خّانه kaid-khānah زندان, ķaid-kh
Kennel, drain, gutter,	nālī نالي, morī موري
Laboratory, manufactory,	كار خانه kār- <u>kh</u> ānah
Landing-place, bandar-ghe	ىندر bandur گياٿ ghātt بند، گياٿ

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Landing-place at a river, etc.,
                                                     گهات ghātt
                                                   fānūs فانوس
Lighthouse,
                                                   chaukī چوکی
Lock-up house,
                                          سلام تخانه silāḥ-khānah
Magazine, arsenal,
                                                 گزنگ garrang
 ,, store-house,
                                                   haneti حويلي
Mansion.
                                            كار خانه kār-khānah
Manufactory, works,
                                           هات hāzār بازار, hātt
Market, mart,
                   میس کورت mes-khānah میس خانه mes-kh
Mess-house,
                                                    chakkī, L
Mill (common hand),
                                   ينچٽي pan-chakkī آسيا asiyā
   (water),
                                          هوا چکی hanā-chakkī
 ,, (wind),
                                                 masjid" Lam
Mosque, musjid,
                                                      لاتے lātth'h
Obelisk, pillar,
                                        دفتر خانه daftar-khānah
Office.
     (collector's court-house), court, office, etc., kachharī کیوی
نشست گاه nishast-gāh بيتهک Parlour, reception room, baitthak بيتهک
                                                   گڙهــے ، ga<u>rr</u>hī
Peel, small fort, or tower,
                                      ستافند sitāfand اسارا
Peristyle,
                                                 kangurah s
Pinnacle.
                                               chabūtrah حيوتره
Platform, elevated seat or bench,
                                                    thanah تعانه
Police-station,
                                               جوكي chaukī
  (road-side),
                                               قيوڙهي ddew-rrhī ٿيوڙه
Porch, vestibule, antechamber,
                                              bar-āmadah sul
  ,, balcony, gallery,
Portico, a gallery resting on columns, asārā اسارا, rīwāķ رياني, rīwāķ
Printing office, or press building, <u>chhāpah-kh</u>ānah حيانه خانه
Prison, jail, jel-khānah خيل خانه , kaid-khānah قيد خانه
                                            عايريا عارات سركاري
Public buildings or works,
                                æamāyir yā æamārāt-i-sarkārī
                       chauk حجار سو chhār-sū ساحة, sāḥat قصار سوك
Quadrangle,
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کم د kamrah کو ڈیری kotthri
Room, chamber, apartment,
    نشست گاه ni<u>sh</u>ast-gāh بيٿهِ کُ ششست گاه ارreception), or parlour, bai<u>tt</u>hak
     (upper), or story,
                                                    mhārrī offe
                                               ته خانه tah-khānah ناخ دت
      under ground, for the hot season,
School-building (a),
                                                   سكت maktab
Seat (elevated), platform,
                                                 chabūtrah s
                                                     تردت turbat
Sepulchre, tomb,
                                           اسارا asārā , ياكها
Shed,
                                دوكان dūkān هتى, hattī هات , dūkān
Shop, mart,
Space enclosed round a house, \( \)
                                         انگن angan احاطه iḥāṭah
  a compound,
                                                    mhārrī وي
Story (a house having an upper),
                                          كم يز kharez كاريز
Subterranean canal,
                                               بارة درى bārah-darī
Summer-house,
Temple (Hindū),
                                                     mandir , مند
                                              قرا derā اديا, dderā
Temporary dwelling, hut, etc.
ديرا tambū , تمبو , dderā , خيمه , tambū خيمة , dderā , خيمة
Terrace, in front of an upper room,
                                                     اگاسی agāsī
                                                   chhāonī حياوني
Thatching for barracks,
                                            تربت turbat, قبر kabr
Tomb, sepulchre, vault,
Tower, small fort, or peel,
                                            برج burj مينار, burj
                                                         برج burj
     bastion,
                                                   khizānah كزانه
Treasury,
                                                     tahsīl Lux
     (local),
                                                       burjī برجي
Turret,
                                                   كنگرة kangurah
  ,, pinnacle,
                                                   کنگره kangurah
  ,, parapet wall,
                                            کنگره دار kangurah-dar
Turreted.
                                             bālā khānah نالا خانه
Upper room, balcony,
                                                    سهاڙي mhā<u>rr</u>ī
Upper story,
                     حه یعه , chah-bachah عدف , chah-bachah
Vat, cistern,
```

Vault, cellar (used in the hot season), ته خانه tah khānah ,, (tomb, sepulchre), kabr قبر Ventilator, also fan or punkah, bād-kash بادريه, bād-riyah بادريه, bād-riyah Verandah, also a balcony, porch, or د آمده bar-āmadah gallery, اسارا usārā , دهليز Vestibule (porch), ,, (antichamber), pesh-gāh slam bāttikā Kごし Villa. كودام go-dām بار خانه bār-khānah بار خانه Warehouse chaukī S Watch, or lock-up house, asiyā آسيا, paun chakkī يونچكي Water-mill, باولى bā'olī باولى Well (large) with steps down, گياٿ ghātt Wharf, quay, عاد eamārāt عارات, æamāyir Works, كارخانه kār-khānah Workshop, ihātah احاطه, āngan انگر Yard (court), گورستان goristān قبرستان, goristān ,, (grave),

VI.—CARPENTRY, JOINERY, TURNING, WHEEL-WRIGHT'S WORK, MATERIALS AND TOOLS.

basūlā Y Adze, or axe, teshah مشت ,, (kind of), اڙدنڌا a<u>rr</u>dan<u>dd</u>ā Across, athwart, diwak دیرک, dimak Ants (white), Auger, or gimblet with a string, يرمه barmā ليرم , barmah a brace and bit, kamānī Lils ,, (bow and string of), كولهارًا kūlhārrā, نير Axe_(large felling), ., (small), hatchet, كولهاڙي kūlhārrī كڙاڙي, kūlhārrī کلگت kalgatt ,, (pick),

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ميل كول آرى كا Axle of a circular saw, belan gol ārī kā كول آرى
Bar of wood, division of a window,
                                             gaz-kha<u>r</u>rā ا پُورْ کَوْرُا
,, (perpendicular),
                                                        عرقوت æarķūt
 ,, (cross),
 ,, (of a door),
                            بلَى َ billī , اگهل aghal ارّدندًا, billī بلرَّ
Barrel.
                                     (main) <u>sh</u>ah-tīr شهتير, la<u>tt</u>hā لُتها,
Beam.
                                       فرشت خانه farshat-i khānah
     (transverse) or joist,
    (upper or roof),
                                              والأر pālārī بالارى, pālār
Bench for tools, k\bar{a}r\bar{\imath}garon~k\bar{\imath}~mez أَذًا , a\underline{dd}\bar{a} , كَارِيكُرُون كَى مِيز
Bit (steel) and borer,
                                       رما اسیات کا barmā ispāt kā
                                         مک andhārī اندهاری, chik
Blind, screen,
                                      كنده لكڙي كا kundah lakrrī kā
Block,
                                             گهرني ghinnī گهني ghinnī
Block, pulley,
                                             گهرنی یکه ی ghirnī ekharī
  ,, (single),
  " (double),
                                           گهرنی دوهری ghirnī doharī
                                             Spirnī teharī گهرني تيهري
,, (treble),
                                   (small) takhtī تختى, takhtah تختى, takhtah
Board, plank,
Boarding, planking, (v. karnā كنا), takhtak-bandī تخته بندي
Bolt or bar of a door (wooden),
                                                     arrdanddā ابّدندا
 ,, \quad 	ext{(iron)}, \quad 	ext{kill}كلي killر كلي, kular{a}bah , قلابه، chittkanar{n}
                                                           kāblah كايلة
 ,, (screw),
 ,, (sliding),
                                        <u>chitt</u>kanī or <u>chutt</u>kanī حِتْكنى
                                             برما barmah برمه barmā برما
Borer, auger,
  ,, (bow and string of a native),
                                                      كماني kamānī
Brace and bit, of an auger,
                                                            barmā L.
Brace-frame,
                                               إلى برما jārrā barmā جاڙا برما
Brad,
                                        بريگ preg کيل , kīlā کيل , preg
Brad-awl.
                                                              mīn ....
                    صندوق واسطه بنیاد کے sandūk nāstah bunyād ke
Caisson,
                                najār ستار, sutār ستار barrha'ī بڙهئ
Carpenter, joiner,
                                                   darūd-gar Šo.,
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Carpentry,
                                   درودگری darūdgarī بجاری najārī
اڈا addā میز کاریگروں کے Carpenter's tool bench, mez kārīgaron ke
                                    صندوق اوزار کی sandūķ auzār kī
,, tool box,
                                                       تكتكى taktakī
 ,, level,
                                                          گونیا gūnyā
,, square,
    ,, rule,
                                     دو فقا do futtā تين فقا, do futtā تين
Carriage (sling) for )
                       la\underline{t}th\bar{\imath}\; \bar{u}\underline{t}th\bar{a}ney\; k\bar{\imath}\; g\bar{a}\underline{r}r\bar{\imath} لتھی اوتھانے کی گاڙي
  timber,
                          كندِّي آ, kunddنكڙي ankṛrīنكسى ،kun<u>dd</u>ī
Catch for a door,
                                                    jharokhā ليخ ويج
Casement,
Cement, paste,
                                                    nishāstah نشاسته
Chalk for writing with,
                                                       كتهنى katthinī
                                                         كهڙي kharrī
  ,, pipe-clay,
                                                       مندوق şandūk
Chest.
                                                مند, فجه sandūkchah
  ,, (small),
                                                           chik ڪ
Chick, screen,
تكرًا يرزه <u>ttukrrā purzak</u>, <u>ttukrrā purzak</u> تكرًا يرزه
Chisel (medium),
                                                     روکھانے rūkhānī
                                                        ىتاسى pattasī
  ,, (broad),
  ,, (narrow),
                                                          نهاني nihānī
                                                       choursa حورسا
    (small, thick and narrow),
    (socket or mortice),
                                                     جورسي choursī
                                                           girdā اگردا
  ,, (small round edged),
                                                     گول آری gol-ari
Circular saw,
                                   گول آري کا بيلن gol-ārī kā belun
 ,, (axle of),
Clamp of metal,
                                                    پىر
كوتهى or ko<u>tt</u>hī
كوتهى ما
Coffer-dam, (sort of box of wood )
                                                     مندوق sandūk
  or stone used as),
                                                         تابت tābūt
Coffin.
                                                  تابوت گر tābūt-gar
Coffin-maker, undertaker,
                                         دانتي dāntī كبونتي, dāntī دانتي
Cog of a wheel (also a notch),
                                            برکار pargār برگار , parkār
Compasses (pair of),
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shikanjah azi Cramp, press, nīm-chak چک , jākhan جاکھی Curb under a well-ring, كيوار kinārr كوار , kenārr Door (a), بيت pal<u>r</u>rā ايل pal<u>r</u>rā ايت ,, (leaf of a), shutter, Door rail, or transverse framing of, كهورجي khūrjī ,, (bolt or bar of), aghal ارَّدندًا, a<u>rr</u>-dan<u>dd</u>a اگهل, billī الهي, Door-frame. حرکیت choukhatt Door-catch. كن*ڈى kun<u>dd</u>ī* Door-latch, garrā IIS Doors (folding), a pair of, jorri c; Dovetail, tenon, chūl Jo واکث golak Drawer, till, Dry-rot, ghun گين būrādā ابورادا, būrā أبورادا Dust (saw), Edge of a tool, دهار dhār ,, (straight), وستر saz \$, mistir مستر Fan or punkah, pankāh swi كولهاڙا kūlhārrā, kulhārra تبر Felling-axe (large), $ku\underline{rr}ar{a}\underline{rr}ar{\imath}$ کڙاڙي, $kar{u}lhar{a}\underline{rr}ar{\imath}$ کڙاڙي (small), File. retī ريتي سُوهان sohān كانوس (coarse), a rasp, كناسى kanāsī ,, for saw setting, barābar برابر, hamnār Flat, level, فرشُ tah نة, far<u>sh</u> پكا فرش pakkā far<u>sh</u> گپج Floor. ,, (terraced), Flooring, ته tah فرش, tah ته Fly-wheel (a), يهيا خراد كا pahiyā kharād kā Fold of a door or shutter, also a door, كيوار kewām Folding doors (a pair of), jo<u>m</u>ī جوڙي Framing of a door, or transverse rail, khūrjī کېورجي Frame of a door or window, chaukhatt حوكيت

```
Frame (a brace),
                                             جاڙا بيما jārrā barmā
                                                 khat kash شخط کش
Gauge,
Gimlet, with bow and string,
                                           برما barmah برمه barmā برما
        auger, brace and bit,)
                                                   كمانى kamānī
      (bow and string of a native),
                                 ريگ مال reg-māl لال تا, ريگ مال
Glass, or sand-paper,
Glue,
                                         سریش sares سریس, saresh
             بيركا نهاني bīrkā nihānī ,گرداؤ روكهاني , bīrkā nihānī
Gouge,
Grind-stone,
                                         سان کا بتیر sān kā patthar
                                                          گوند gond
Gum,
                                                  الاک lākh الكي lāk
Gum-lac,
                           arar{a}bah ارابه, gar{a}\underline{r}rar{i} top kar{i} کاڙي توپ کی
Gun-carriage,
                                            دسته dastah متد, dastah
Haft, handle,
                                     هدوری hattorri مارتول
Hammer,
Handle, helve, haft,
                                            دسته dastah منته dastah
                                                     manjhī منجبي
Hand-barrow,
                                                            آري ārī
Hand-saw.
                                                      كانَدِّى kān<u>dd</u>ī
Hand-spike,
                                  كولهاڙي kurrārrī كڙاڙي, kūlhārrī كولهاڙي
Hatchet, small axe,
                                                       kabzah قنضه
Hinge (a),
                                     جو"ا قىضە كا jorrā kabzah kā كا
Hinges (pair of),
                                            يٿهري pattharī سلي silī
Hone (also a whetstone),
                                        آنكڙي ānksī , آنكسي
Hook, catch, tenter,
                                                           tassū jū
Inch.
                                       دانتی پڙ گيا dāntī pa<u>rr</u>-gayā
Indented, notched,
                                            دانتي يڙنا dāntī pa<u>rr</u>nā دانتي
                  (to become),
                               تيد تخانه kaid-khānah زنداري, ķaid-khānah
Jail, prison,
                                                          jorr ;
Joint, join,
                                    فرشت خانه farshat-i-khānah
Joist, beam (transverse),
                          كلي kunjī كلي, killī كلي, kunjī كلي, kunjī
Key,
                                         خراد kharād خراط kharād خراد
Lathe.
                                     pahiyā kharād kā ك يهيا خراد كا
  " (wheel of),
```

```
Latch of a door,
                                                                   garrā 15
                                             ير patt يرية, parrā بيت, pallā لل
Leaf of a door,
                                                             تكتكى taktakī
Level (carpenter's),
                                            قلف kulf قفل, kufl تالا
Lock of a door,
                                          كوٿا يلي kottā-palī موگرا
Mallet.
Mortice and tenon, dovetail,
                                                            جورسي chaursī
Mortising chisel,
Moulding,
                                                  kor kā randā كوركا رندا
            (rebating plane for),
                                   (small) k\bar{\imath}l\bar{a} کیل , preg کیل , k\bar{\imath}l
Nave of a wheel, chāk, yā pakiyā kā, dumbālah حاك يا نهيا كا دنباله
                                             chimttā حيمتا, chīmttā
Nippers, pincers,
                                            دانتي dāntī دانتي پڙگيا
دانتي پڙگيا dāntī pa<u>rr</u>-gayā
Notch, dent,
Notched, indented (as tools, etc.),
Pair (as of doors, etc.),
                                                               جوڙي jomi
                                                 پرکار pargār پرگار, parkār
  ,, (of compasses),
Panel (of a door),
                                                                   dilhā Ws
Paper (sand),
                                                        reg-māl الدي مال
                                                             لال تا, lāl tā'o
   ,, (glass),
Paste,
                                      gā<u>rr</u>hney hī ka<u>rr</u>ī گاڙهينے کي
محيمات mu<u>ch</u>āk
Pile (wooden),
Pile-driver.
                                             حيمتا <u>chimttā</u> جمتا, <u>chīmttā</u>
Pincers, nippers.
Pipe,
                                              كهڙي kha<u>tt</u>hinī كٿهني, kha<u>rr</u>ī
Pipe-clay, chalk,
Plane (a),
                                                                 رندا randā بندا
                                                  كور كا رندا kor kā randā
  ,, (rebating),
 ,, (rebating for mouldings),
                                           jhirī kā randā اندا
ر (rebating for round edges), gol<u>ch</u>ī-randā گولچي رندا
تخته (planking, ta<u>kh</u>tah-bandī بندي), { ta<u>kh</u>tah تختى ta<u>kh</u>ta
Pole of a jhām, or well-sinker's instrument, ballī jhām kī بلي تجهام كي
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Press, cramp,
                                                                                                                              shikanjah منكنة
Prison, a jail,
                                                                           تيد خانه kaid-khānah زنداري, kaid-khānah
                                                                                                                                           chuftā حفتا
Prop, support,
                                                                                                          ghinnī گهُزني, ghirnī گهُزني
Pulley or block,
           (single),
                                                                                                       گهرنی ایکیری ghirnī ekharī
             (double),
                                                                                                       گيرني دوهري ghirnī doharī
      ,, (treble),
                                                                                                           گيرني تيهري ghirnī teharī
Rebate or rabbet, a rectangular recess or groove cut
      longitudinally in a piece of timber to receive the
      edge of a plank, or other work required to fit into patām
     it, as a door frame, etc.
Rebating plane for mouldings, jhirī kā randā جهري کا رندا
                                                                    (of a cottage, balendda اللَّهُ اللّلْمُ اللَّهُ اللّ
Ridge-pole,
                                                                                                                                        kamand كمند
Rope ladder,
تَكَةِا دِرَة , ttukrrā-purzah جَوْدَ. Rubbish, chips, shavings, etc. tūtan تَكَةِا دِرَة , ttukrrā-purzah عَنْ
دو فقا G-foot) do futtā تين فقا , (2-foot) do futtā تين فقا
                                                                                                                          reg-māl ال على
Sand-paper,
Saw (hand),
                                                                                                                                                      ārī ي
                                                                                                                 karānt سناك, ārā ١,١
   ,, (large),
                                                                                                                               گول آری gol-ārī
   ,, (circular),
    ,, (axle of circular saw),
                                                                                     بيلن گول آري کا belan gol ārī kā
                                                                                                                                            دانتي dantī
   ,, (tooth of),
                                                                                                               būrādā بورادا, būrā بورا
 Saw-dust.
Screw, or screw nail,
                                                                                                                    pench , pech , pech
                                                                                                                                 marrorri of
       ,, (worm of a),
 Screw-driver, (in Dekhan, marrorri پيپ کش ), pech-kash (مڙوڙي)
                                                                                                                             الك lākh الكير lāk
 Sealing-wax, gum lac,
                                                                                                                                       kanāsī كناسي
 Setting a saw (file for),
                                                                                                          دانتی نکالنا dāntī nikālnā
To set a saw,
 Sheave (single), a block
                                                                          گهرنی ghirnī ekharī گهرنی یکهری, ghirnī
       or pulley),
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Sheave (double),
                                                      گئے نی دوھری ghirnī doharī
                                                       گهرنی تیهری ghirnī teharī
 ,, (treble),
Sill of a door or window,
                                                                        nijāf ف
                                                                         يائي pā'e
Sinew used for filling cracks in wood,
                                                                 چٿكنى <u>chutt</u>kanī
Sliding-bolt,
Sling carriage for \{g\bar{a}_{\underline{rr}}\} \{g\bar{a}_{\underline{rr}}\}
Socket chisel,
                                                                    جورسي chaursī
Splinter (wood),
                                                                           کر ہے kir<u>ch</u>
Square (carpenter's or mason's),
                                                                        گونيا gūnyā
                                                                         سكرى sikrī
Staple of a lock, bolt, etc.
                                                برماً اسیات کا barmā ispāt kā
Steel bit.
Stone or wooden box used)
                                            ko\underline{tt}h\overline{\imath}\;y\overline{a}\;sandar{u}kكوٿهي يا صندوق
   as a sort of coffer-dam.
                                                    يٿي سان کا patthar sān kā
Stone (grind).
,, (whet),
                                                                             silī, سلح
   ,, (hone),
                                                                     ىتىرى patthrī
                                            مستر mistir مسطر, mistir گز
Straight edge (a),
                                                                      birinjترنجي ch\bar{u}l
Tack, small nail,
Tenon, dovetail,
                                         لكڙ laka<u>rr</u> لكڙي, lak<u>rr</u>ī چوب
Timber,
    for), a wain,
Tire of a wheel,
                                                                          āhul Laī
Tool-bench (carpenter's), kārīgaron kī mez اذا, a<u>dd</u>ā کاریگرون کی میز
                                                      هتيار hatiyār اوزار, hatiyār
Tools, instruments,
                                                                      دانتی dānt-ī
Tooth of a saw,
                                                                    بتوتى pattotan
Transom.
Turning-lathe,
                                                    kharāt bl, s, kharād ol, s
                                               pahiyā kharād kā ك يهيا خراد كا
               (wheel of),
Wainscot, boarding,
                                                      تخته بندی takhtah-bandī
Wax (bees),
                                                                           mom
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Wax (sealing),
                                                الك lākh الكي lāk
Wedge,
                                                    pachchar
Wheel (cart, etc.)
                                piyā ييا, chāk حاك, pahiyā ميا
      (of a turning-lathe), pakiyā, yā piyā kharād kā نبهيا يا ييا خراد كا
                                              piyā Lu, pahiyā Lu
    (fly),
                                        دهورا dhūrā رهوري dhūrā المهوري
    (axle of), axletree,
      (nave of), chāk, yā pahiyā kā dumbālah حاك يا بهيا كا دنباله
  " (spoke of),
                                                   ārah gaz $ 8.1
                                                       āhul Joī
     (tire of),
                                                        jū'ā \-
     (yoke),
                                                          silī, Lu
Whetstone.
Windlass or crab.
                                 charkhر خي جهام کی charkh i
Window-sash.
                                                      pinjrā I, si
Window-bar or division,
                               دلكر lakarr لكري, lakarr إلى المراجب chob
Wood, timber,
                                                  كوڙهي or kotthī
Wooden or stone box open at the ends,
                                                  Sandūk صندوق
  used as a sort of coffer-dam,
                                                gaz-kharrā ايخ ا
Wooden bar (perpendicular) of a window),
Worm of a screw,
                                                  marrorri o":
                                                         j\bar{u}'\bar{a}
Yoke of a wheel, a yoke,
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VII.—EARTHWORK, EMBANKMENTS, FORTIFICATION AND FIELDWORKS, CANALS, RAILROADS, ROADS, MINING, HUSBANDRY, ETC.

Axe (pick), $\begin{cases} \text{(native) } kud\bar{a}l \text{) كدال, } kudr\bar{a} \text{) كدال } kalga<math>\underline{u}$ كدلت $udga\underline{u}$ كدلك. Approaches, $udga\underline{u}$ مرجال Bag for water (leathern) slung on the shoulders, $udga\underline{u}$ $udga\underline{u}$ مشك $udga\underline{u}$ $udga\underline{u}$

```
پشته pu<u>sh</u>tah بند band, بانده
Bank, dike, embankment,
                                                      ankattā انكتا
                                              هته گاڙي hath-gārrī
Barrow (wheel),
                                                    manjhī si
,, (hand),
پرتلا چمڙے کا belt used with), partalā chamrrey kā پرتلا چمڙے کا
                                              ورا orrā ١٥٠١, ttokrā اورا
Basket (large),
., (small),
                                                      ٿوکي <u>tt</u>okrī
                                              بلا pal<u>rr</u>ā الله, pallā لل
  " (small and shallow),
                                   بار و ديوار bār-o-dīvār سد
Bastion, rampart,
                                                   morchah مورجة
Battery,
Battery (raised),
                                                 damdamah محددة
                             برتال حمر کا partāl chamrrey kā
Belt worn by barrow-men,
                                                          dā'o
Bill-hook.
                                             kundah کنده, kattā کتا
Billet of wood.
Boring instrument (for the ground), barmah zamīn kā ك برمنه زمين كا
Breach (a).
                                          بغار bugārā الله, bughār الغار
       (by a cannon ball),
                                                           توڙ ttom ٿوڙ
Bucket (leathern),
                                                          ddol J. 3
       (large leathern) for a well, pūr بور, prohā پروها, charas چرس, charas
                   with trunk or spout, mūtt موت , mūthah موتهه
       (small leathern),
                                                   قوليم <u>ddolch</u>ī
      (wooden), a pail (small, taghar{a}rar{i}رتغاري, taghar{a}rرتغاري, bar{a}l\underline{t}ar{t}
      (wheel or pulley used with )
                                              or bhannar بهو نور
         the charas or leathern
                                    pahiyā charas kā ك پہيا چرس
         well bucket).
   ,, pulley (large) or wheel for a
                                          ghirnī بيون, bhaūn گيرني
         well, used with the charas,
Buckets (string of, for Persian wheel),
Bundle of wood, faggot, fascine,
                                                          كتا kattā
Bullock,
                                              بيل baldī بلدى, bail
Bullock-cart for heavy loads,
                                     الإها الم
                                     گاڙي دو بلدي gārrī do baldī
          (two bullock),
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Bullock-cart (four bullock),
                                    گاڙي چو بلدي gā<u>rr</u>ī <u>ch</u>ou baldī
Bulwark, bastion,
                                    سد sadd بار و ديوار sadd بار و
يشته pushtah بانده bāndh بند bāndh بند pushtah بند
                                  أشكر گاه lashkar الشكر گاه lashkar الشكر
Camp,
      صلبت كونچه salābat kūnchah, morchāl مورچال, salābat kūnchah
                                                   نالا nahr نير, nālā نالا
Cavalier, raised battery,
                                                  cocos damdamah
                                         توپ کی گاڙي top kī gā<u>rr</u>ī
Carriage (gun),
Cart (light wheeled carriage),
                                                       arābah will
                                        گاڙي gā<u>rr</u>ī حيکڙا, gā
  ,, (bullock) for heavy loads,
  ,, ,, (different)
                                                       larrhyā Loi
                                       گآڙي دو بلدي gārrī do-baldī
 ,, (two bullock),
                                    گاڙي جو بلدي gārrī chou-baldī
  " (four bullock),
Cartman, carter, g\bar{a}\underline{rr}\bar{\imath}-n\bar{a}n گاڙي بان , g\bar{a}\underline{rr}\bar{\imath}-b\bar{a}n گاڙي بان
Cistern, small tank,
                                   chah-bachah حد في, hauz حوض
                                           fasīl فصل, arrtālā إتالا
Counter-scarp,
                                                      kadīmah was
Crow-bar,
                                                        arrtālā YUI
Curtain (in fortification)
                             بيل bel-chah بيلي , bel-chah بهاورًا phā'orrā
Delve, mattock,
To delve,
                                                       كيونا khodnā
                                                       کیودی khod-ī
Delving,
Dibble for digging grass,
                                                        کی یا khurpā
                             بند bund بشته pushtah انكتا, bund بند
Dike, embankment,
Ditch, trench, moat, (natural, generally khā'ī كبائ), khandak خندق
                                                  mittī or mattī
Earth, soil,
                           ملقى كى كهودائ mittī or mattī kī khodā'ī ملقى كى
Earthwork,
بند bāndh بانده bāndh , پشته بندي bāndh , بانده
                                                      khod-nā いっぱ
To excavate.
                                                      كهودائ khodā'ī
Excavation,
                                                       bel-dar , الملدار
Excavator, navvy,
                                                            kattā 🛎
Fascine, faggot,
                                                               tale &
Fold, layer, stratum,
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```
Fork (pitch-, three-pronged),
                                                pachānglā Kila
  " ( " five-pronged),
Fosse, moat, ditch, (natural, generally kh\bar{a}'، کندی), \underline{kh} and a
Fusee (match),
                                                    falitah فلمتنا
                                             گادى gādī راوڙا, gādī
Gabion.
                                                  maddad مدد
Gang, or help, of excavators,
                                                  تنڌيل ttanddel
     ,, (overseer of a),
Glacis.
                                                   e pushtah دشته
Gravel, pebble, or concrete (used
                                      كنكر kankar كنكرى, kankar
  in metalling roads),
Ground, soil,
                                               mittī or mattī, ....
                                                       bhūm "
  ,, (sandy or light),
                                                      guniyā Lis
Ground-square,
                          گاڙي توپ کي gā<u>rr</u>ī top kī ارابه
Gun-carriage,
                                          dastah دسته, mutth مته
Handle, haft,
                                                     hengā Kins
Harrow,
Heap,
                                            الله attam , دهير
Help, or gang, of excavators,
                                                    maddad مذد
     ,, (overseer of a),
                                                  ٿنڌيل ttanddel
Helve, haft,
                                         dastah دسته, mutth
Hill,
                                           ىشتە pushtah تىل tall
Hook (bill),
                                                        dā'o
                                   درانتي darāntī هنسيا
  ,, (reaping),
                     مزارع muzāriæ , كشتكار kisht-kār كنبي , muzāriæ وزاعت kisht-kārī , كشتكاري
Husbandman,
Husbandry,
Instrument for raising water by means of a
                                               دهینکلی <u>dd</u>henklī
  sort of lever,
                           خندق كيودا هوا khandak khodā hū'ā أيا
Intrenched,
                               مورحل كيا هوا ما morchal kī'ā hū'ā
                   صلابت كونچة salābat kūnchah, مور چل
Intrenchment, }
                                                  sangar سنگر
```

```
Intrenchment (lines of),
                                  مورحال morchāl ,صلابت كونجة
  approaches, etc.
                                            salābat-kūnchah
                                  ھتھیار یا اوزار مورچل کیودائ کے
Intrenching tools, }
                           hathyār yā auzār morchal khodā'ī ke
مورچال mor-<u>ch</u>āl صلابت كونچة Intrenched camp, şalābat kūn<u>ch</u>ah
Layer, stratum, fold,
                                                          tah i
                                                    mashk Line
Leather bag for water (for a man),
Leathern bags (pair for a bullock),
                                                    pakhāl الكيال
Leather buckets of sorts (see Buckets).
مورچال morchāl , صلابت كونچه salābat kūnchah مطابت كونچه
Linstock (see Match),
                                                        توڙا to<u>rr</u>ā
                                               bar , bojh , bojh
Load,
Match, linstock, fusee,
                                          فلت falītah, توزا torrā
Mattock,
                                                   phā'orrā I
  " (well sinker's,
                                                      jhām جهام
                                    (small) belchah بيل, bel بيل, bel
,, , spade, or shovel,
                                                 کیودنی khodnī
                                                     كدالي kudālī
   ,, (sort of dibble),
                                               بيمايش paimā-ish
Measure, extent, measurement,
Measure (a),
                                                 paimānah alla
Measuring rod,
        (six foot),
                                        قر حه فت gaz chha-futta
           (ten foot),
                                        گزدس فت gaz das-futta
Mine, also a quarry, maædan معدى, khān كار, kān كار, ā-kar كر
  ,, (shaft of a),
                                                 كيانكي khān-khar
                                        kānī كانى, maædanī معدنى
Mineral (adj.),
Mineral (a),
                                           فلز مات dhātt دهات, filiza
                                       كهائ khandak خندن, khā'ī كهائ
Moat.
                                          بند band بشته band بند
Mound raised round land, dike,
                                               damdamah a.s.s
   ,, (raised battery),
                                                    bel-dar بيلدار
Navvy, excavator.
```

```
دار وغه dāroghah سرهنگ
Overseer, inspector,
                                                ٿنڌيل ttanddel
    ,, of a gang or help,
                                  كتهرا katthgharā كتهكهرا, kattharā كتهرا
Palisade, railing,
Pannier, basket,
                                                          orrā 1:1
                                         فصيل faṣīl ، قير
Parapet.
Pass, passage in a mountain, approach to a river, ghātt گيات
                                  کنکی kankar کنکی kankar
Pebble, gravel,
Peg or pin of wood,
                                         ميخ mekh کهونتي khūnttī
رهت raha<u>tt</u> هرت, raha<u>tt</u>
             (string of buckets or pots for),
                                                         jel حيل
                   (\mathrm{small}) \; \mathit{kud\bar{a}l\bar{i}} \;گینتی \mathit{gynt\bar{i}} \;رکدالی \mathit{gynt\bar{i}} \;
Pick, pickaxe,
                            jandrā إجندر, jan<u>dd</u>ā أَ
Pitchfork (three-pronged),
                                                 بحانگلا pachānglā
         (five-pronged),
Pile-engine,
                                                   muchāk كاك
Pile, ballī بلی, ghārrney kī karrī کڙي, karrī گڙي, karrī گڙي
                                              kulbah قلع, hal الله
Plough,
                                                         juh so
,, (yoke of),
Pulley (large) or wheel used with the
                                          بهون bhaun گهرني ghirnī
  charas for a well,
                                 كَتْهُر اللهُ katth-gharā كَتْهُر اللهُ katth-gharā كَتْهُر اللهُ اللهُ اللهُ اللهُ اللهُ اللهُ اللهُ اللهُ اللهُ
Railing, palisade,
                                         سترك آهنى sa<u>rr</u>ak āhanī
Railway,
                                                        جيلي jelī
Rake.
                                  دورمت dūrmas دورمس, dūrmat
Rammer for earth,
                                                      fasīl فصل
Rampart,
                                    درانتي darāntī هنسيا
Reaping-hook,
                                                  kilæachah azeli
Redoubt.
                                                      کتا kattā
Reeds (bundle of), fascine,
                                                     سېت sarrak
Road, roadway,
                                                      گز gaz نگ
Rod (measuring),
                                       گز چه فت gaz chha futta
               six-foot.
                                       گز دس فت gaz das futta
               ten-foot,
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```
Rope (thick) used with the charas or
                                         لا burut or burt برت, la'o
  leathern well bucket,
Sack, bag,
                                                      juwāl II->
                                                    gharārah s, s
  ,, (large),
Shovel, spade, bel بيل, khodnĩ کپودني, kh\bar{a}k-and\bar{a}z خاک انداز
Shovel (well-sinker's),
                                                       jhām جهام
                                                        bhūm "
Sandy ground or land,
               نغم كهودنا naghm khodnā ,نقب مارنا nakab marnā
To sap,
                        دهال <u>dd</u>hāl سلامي, salāmī سلامي, <u>dd</u>hāl
Slope.
                                                       کیب khep
Spell, trip, turn,
                   khar{a}k-andar{a}z بيل bel , خاک انداز , khodnar{a}
Spade, shovel,
Square (a ground),
                                                       گنيا guniyā
Stratum, layer,
                                                            tah &
Tape (tracing, coarse),
                                            ninār نوار, ninām بنوار, ninām
Tracing (a),
                                                 داغ بيل dagh-bel
Tool (flat wooden) for beating and smoothing earthwork, thap\bar{\imath}
                 (small),
                                                     thapkī تپيکي
                   (natural, generally khā'ī كندق), khandaķ خندق
Trench.
                                                       khep S
Trip, spell, turn,
Unladen (as a cart),
                                                        ubhrā اسا
                                                      utārnā וט, ט
To unload or unlade,
                                                    mashk شک
Water-bag (leathern) for a man's shoulder,
                                                    pakhāl كهال
Water-bags ,, for a bullock, etc.
                                        saķķā سقا, bihi<u>sh</u>tī بهشتى
Water-carrier.
                                                   pakhālī كالم
           (on bullock's back),
Water (machine for raising, on the lever principle), <u>dd</u>henklī قمينكلي
Water-bucket (large leathern) for a well,
                                                     charas چرس
                                                         jel Jus
Water (string of buckets or earthern pots for),
Wheel for drawing water (called a)
                                        haratt جرت , rahatt
Persian wheel),
                  هاتھ گاڙي hath-gā<u>rr</u>ī هتھ گاڙي hath-gārrī
Wheel-barrow,
```

Windlass, winch, crab or crane, manjanīk ملسوت, malsūt مبلوت, malsūt بالتي, bālttī بالتي, bālttī بالتي, bālttī تغاري, bādttī تغاري, wooden instrument for beating and smoothing earthwork, thāpī تغاريي,, (small),

METALS, PRECIOUS STONES, CHEMICALS, ETC.

tez-āb تيز آب $rar{u}h$ -i aazam روح اعظم $rar{u}h$ -i aazam روح $rar{u}h$ Acid (nitric), aquafortis, Agate, pīr-pattārī پير پتاري, gār گار, sang-i yashm سنگڪ يشم Alkali, potash, khār , Les kānsah كانسة Alloy of copper and tin, کسکت kaskutt ,, of several metals, Alum, phattakarrر به کری, phittkar به کری, $zar{a}j$ -safed زاج سفید surmah مرس, kuhl لحل Antimony, تيز آب tez-āb Aquafortis, nitric acid, sankhī'ā لينكيا Arsenic (white). زرنیخ zarnīkh , هرتال ,, (yellow), orpiment, ro'in رويري, ajzdahāt اژدهات Bell-metal, سوهاگا sohāgā بورق būrak تنكار, sohāgā Borax, پيتل pītal برنج birinj, birinj (برنجى), Brass. گندک gandak Brimstone, sulphur, تامیسوار tāmesnār Calx, scoria of copper, Carbonate of soda (impure), natron, sajjī ... عقبق جگری æakīk-i-jigarī Carnelian. Cinnabar, sulphuret of mercury, \ isrinj -شنگرف shangarf vermillion. mis مس, tāmbā تانبا Copper, Copper and tin alloy, kānsah كانسه

```
Copper (sulphate of), blue-stone,
                                                      mīnā Line
                                       نيلا توتا nīlā totā توتيا, nīlā totā
 or blue vitriol,
Copperas, sulphate of iron,
                                               ليلا تهوتها līlā thothā
                                               kasīs کسیس, عقر راج
  or green vitriol,
Coral,
                                         bassad بسد, marjān بسد
                                            الماس al-mās هيرا hīrā
Diamond.
,, (dust),
                                         الماس تراش al-mās tarāsh
       (glazier's),
                                        قلم هیرے کی kalam hīrey kī
                                                      al-māsī الماسي
   ,, (cut in facets like),
Emerald.
                                                     zumurrud 5,0;
                                                      كورنڭ kūran<u>dd</u>
Emery,
                                                   يبونا sonā طلا sonā
Gold.
Gold-leaf,
                                             ورق طلائي warak-i-tilā'ī
                                                 أوها āhan آهن, lohā لوها
Iron,
                                            أهني āhanī اهني, lohiyā لوهيا
     (adj.), of iron,
                                                لوها سرى lohā sarrī
 ,, (pig, or in the mass),
                                             ارها حوكور lohā choukor
 ,, (bar),
                                               لوها حيتًا lohā chapttā
 ,, (flat),
                                            لوها حادري lohā chādarī
,, (sheet),
                                               زاج عقر مسيس, عقر المياس kasīs
,, (sulphate of), copperas,
                                                    لوها گول lohā gol
,, (rod),
                                                ارها كندلا lohā kundlā لرها
    (hoop),
                              kach-lohiyā كيلوهيا, kach-lohī
    (untempered),
                                                       بگهال paghāl
     (hard kind of),
                                                       loh-sār, lund
Iron mine,
                                                     لوها تار lohā tār لهها
Iron wire,
                                                          دستا dastā
Lapis calaminaris, tutanag,
                                                surb برب, sīsā سيس
Lead,
 ,, (black),
                                                         shīsh mim
                                                         ىسربى surb-ī
Leaden, of lead,
                                                         kasīs كسيس
Martial vitriol (ferri sulphas),
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```
Magnet, load- عند ربا ahan-rubā سنگ مقناطيس stone, هناطيس
Mercury, quicksilver,
                                      ياره pārah سيم آب sīm-āb
                                          دهات dhātt فَذَّة, dhātt
Metal.
                                     ro'in روير , ajzdahāt اژدهات
  ,, (bell),
Mine (a),
                                         maædan ,,, san ,, kān ,, l
  ., (shaft of a),
                                                 كيانكي khānkhar
                                                 maædanī معدني
Mineral (adj.),
                                          دهات dhātt فلزّ, dhā
Mineral (a), ore,
Mica, talc.
                                         بهوڙل bhūrral ,طلق
                                     tex-ab تيز آب tezab تيز
Nitric acid, aquafortis,
                                          روح اعظم rūḥ-i-aæzam
Oil of vitriol, sulphuric acid,
                                 گندک کا عطر gandak kā æaṭr
Ore, mineral,
                                          دهات dhātt فلزّ, dhātt
Orpiment, yellow arsenic,
                                      هرتال hartāl زرنیخ
                 jast -----, rūp-jast ------, jastah &-----
Pewter,
Porphyry,
                                       سنگ سماک sang-i-sumāk
                                                        کیار khār
Potash, alkali,
Quicksilver, mercury,
                            پاره pārah , پارا pārā , سيم آب sīm-āb
Sal-ammoniac.
                                نوشادر noshādar نوسادر, noshādar
Sapphire,
                                             انيلا بهتر phattar نيلا بهتر
Sheet iron,
                                        اوها حادري lohā-chādarī
Silver.
                           روبا rūpā, جاندي chāndī, خاندي
Soda (impure carbonate of), natron,
                                                      sajjī يقيم
Steel (adj.), made of,
                                                   فولادي fūlādī
Steel.
                                                      fūlād فولاد
                                                    كيت kherri
  ,, (kind of native),
,, (tough description of),
                                                    ispāt اسيات
                                                   مكال paghāl
     (hard kind of),
                                                   گندک gandak
Sulphur, brimstone,
```

تہ:اب گندک tex-āb-i-gandak Bandak kā æaṭr گندک کا عطر Sulphuric acid, oil of vitriol, روح اعظم rūḥ-i-aæzam بهوڙل bhūrral طلق bhūrral Talc, mica, تلعی به kalaæī رانگ rāng Tin, كسانًا kasau<u>tt</u>ī كسوتى, kasānā Touchstone (a), دستا dastā Tutanag, zinc, توتيا tūtiyā Tutty, گندک کا عطر gandak kā æatr Vitriol, or oil of, sulphuric acid, روح اعظم rūḥ-i-aæzam (blue), sulphate of $\int l\bar{t}l\bar{a} \; thoth$ ا ليلا تهوتها, $n\bar{t}l\bar{a} \; tot\bar{a}$ نيلا توتا mīnā Lina copper, زاج zāj كسيس, zāj (green), sulphate of iron, (white), sulphate of zinc, safed zāj جازے (martial), kasīs , Lum jast حست, dastā ستا Zinc. زاج سفید zāj-i-safed ,, (sulphate of), white vitriol,

IX.-MISCELLANEOUS ARTICLES IN COMMON USE.

Barrel, cask,	$p \bar{\imath} p \bar{a}$ يييا
Bladder,	phuknā نيكنا
,	$\{ taghar{a}r$ بالتي $bar{a}l\underline{t}ar{t}$, تغار
Bucket, tub, or pail (of wood),	(small) taghārī تعاري
Burning matter,	angārah انگاره
Cane, rattan,	bet, bent
Canvas,	<u>ttātt</u> ٿاٿ
Cask, barrel,	<i>pīpā</i> لييا
Catgut,	rodah اروده tant تأنت
Cauldron, deg	كرّائ ka <u>rr</u> āh كرّاه, ka <u>rr</u> ā'، ديگ
Cloth (coarse), sort of canvas,	كهادي khādī
,, sackcloth or coarse canvas,	<u>ٿاٿ ٿلي ٿلي ٿل</u>
Cocoon, also the silk-worm,	pelah عليه
Cotton cloth (coarse),	گزی gazī گاڙا, gazī گاڙا
,, (thicker and with two	threads), dosūtī دوسوتي
,, (coarse red),	كهاروا "khārwā كهاروا
Crab or windlass,	جرخي جهام کي harkhī jhām kī چرخي
Creeper, climber,	بيل bel
,, (twig of), used in basket-n	naking,)
Crook, drag, etc.,	انكوڙا anko <u>rr</u> ā انكوڙا
Dish (flat brass), kind of tray,	طبق tabak طبق
Drag, grappling iron, etc.,	انكوڙا anko <u>rr</u> ā
Egg,	انڈا an <u>dd</u> ā
Fat, tallow, grease,	$p\bar{\imath}h$ پيه, $\underline{charb}\bar{\imath}$ چربى
Flax (Linum usitatissimum),	تــــــــ
Funnel,	$purn\bar{\imath}$ پرني, $chong\bar{a}$
Grease, fat, etc.,	ييه pīh چربي, pīh چربي
Grappling iron, a drag,	انكوڙا änko <u>r</u> rā ا
Gugglet,	صراحي şurāķī
Gum of the Cratæva, or Ægle Mar	melos, bel بيل
Hide,	چرسا <u>ch</u> arsā
Hook (bill),	داو dā'o

```
كانتا kānttā كنتيا, kānttā كانتا
Hook (fish),
,, (tent),
                                              يەلى كش phalī ka<u>sh</u>
Hose or leather pipe,
                                  نل حیمہ ے کا nal chhamrey kā
                                                 صراحي şurāķī
Jar, gugglet,
                                                     chamrrā اچمڙا
Leather,
                                     نل جمر کا nal chamrrey kā
 " (pipe or hose),
Loom.
                                                        تانت tānt
                                                  mekh-cho
Mallet for driving tent pegs,
                                        چقائ <u>chattā'ī</u> بوريا
Matting,
       (made from reeds or grass), chattā'ī patter kī چٿائي پٿير کي
                                            چٿائي <sup>که</sup>جوريا کجي کي
     made from palm leaves, {
                                       chattā'ī khajūr or kajjī kī
Milk.
                                                         dūdh so,o
                           منها mattha جهاجه, mattha جهاجه
     (butter),
                                                         دهی dahī
     (curdled),
                                                     jāman _____
     (sour), rennet,
Mill-stone, also hand-mill,
                                                       \underline{ch}akk\bar{\iota} چکی
Mucilaginous seeds,
                                                      methī,
Needle,
                                                          sū'i "
                                                          sū'ā \
,, (packing),
                                                           tel Li
Oil.
                                        nāriyal kā tel ناريل كا تيل
 ,, (cocoa-nut),
                                            السي كا تيل alsī kā tel
   (linseed),
                                        سرسون کا تیل sarsūn kā tel
 " (mustard),
                                              تا, کا تیل til kā tel تا, کا
 ,, of the plant Til,
                                           الهي كا تيل lāhī kā tel
,, of the wild mustard,
                                            ترا کا تیل turrā kā tel
 ,, of the Turra, a sort of tare,
                                           تندور tandūr , تنور
Oven.
Pail, bucket, tub, فقاري small taghār، بالتي التي , (small taghār، تغاري), taghār
                                                      كاغذ kāghaz
Paper,
                                    گڈي کاغذ کی ga<u>dd</u>ī kāghaz kī
 ,, (half ream of),
```

Peg or pin (tent), mekh : Pitch. ریگی، degchah دیگیی Pot, small cooking vessel, Pumice-stone. jhāmā loles jāman Rennet, sour milk, zang Si; Rust. تكهري takharī , ترازو Scales (pair of), .. (one scale) بلازًا pallā بيلا palā rrā إيلا Steelyard, تولى tūlī تسما tasmā Strap (a) Sack. گون gon جوال junāl Saucer (copper), a plate, rikābī رکابی جربتي <u>ch</u>arbī , پيه Tallow, fat, grease, ديرا derā , تنبو tambū خيمة Tent (a). " (bags for walls of), ghirārah s, l, e, garārā 1,1,5 ,, (,, fly of), shalītah متلته پہلی کش phatī-kash Tent-hook, Tent pegs or pins, mekh : انگشتان angushtān Thimble. Tray, flat dish (brass), tabak de Treacle, refuse of sugar, shīrā 1 ... Trivet, fire place, deg-dan Joels Trough for cattle, chur > تغار (small, taghārī بالتي), taghār تغار Tub, pail, karrāhī كالم Vessel with two side handles, كٿور ا ka<u>tt</u>orā ,, (small metal), cup, or bowl. $\bar{a}b$ - $\underline{k}h\bar{u}r\bar{a}$ اب خورا ,, (small glass or cup), ., (earthen) in general, ستے کا برتی mittī kā bartan للبنا gharrā العلل tthiliyā العللا with mouths, and هانڌي hānddī جالا of different sizes كيهالي kachhātī

Azure blue.

Colour (price of),

,, (varnish),

Copal (gum),

Black.

Vessel (earthen, large), mattkā K. (large, open), nānd ناند, nād ناد (small, with spout), \[\int badhnī بدهنا, badhnā بدهنا kurnā 1,5 kupā لخ, kūpā ل ك ,, (large oil), dabbā bo ., (small), māsh ماش urrd باش Vetch (kind of), sirkah & Vinegar, Wax (bee's), mom ... ات bātt Weight for pair of scales (a) نول nazan (بوجه , tol بوجه), wazan زول Weight, load,

X.—PAINTER'S AND GLAZIER'S WORK.

kabūd كناد

rangā'ī نگائی

chandras چندرس

روغن چندرس کا roghan chandras kā

kālā YK

kājal كَيِّل, kajlā كَيِّل, kajjal كَيْجِل, kajjal ,, (lamp-) اندلا nīlā لدلا nīlā الدارة æūdah soe, ūdā loj ,, (light or sky), kūchī كونچى, kūnchī كوچى Brush (large), نلم kalam كافور kāfūr ,, (small), also a pen, Camphor, safedā \Lieu Ceruse. كتهني ka<u>tt</u>hinī كهڙيا مــــي kha<u>r</u>riyā-mi<u>t</u>tī كهڙي, ka<u>tt</u>hinī كهڙي رنگت rang Colour, Coat of colour chhop ____ rangānā انگانا, To colour.

æūd se

تیسو کے بھول ماہ tisū key phūl Dhāk flowers (used as a colour), Diamond (glazier's), قلم هیرے کا kalam hirey kā کا دم الاخوين damu-l-akhawain Dragon's blood, شیشه <u>shīsh</u>ah کانچ Glass. ā'īnah آئسنه ,, (pane of) khi<u>rr</u>kī کهڙکي ,, (window), قلم قیرے کا kalam hirey kā Glazier's diamond. هرا harā رسيز sabz Green. Gum (arabic). گوند gond æūd عود Gum benjamin, styrax benzoin, nīl i Indigo, سندور sandūr اینگر Lead (red), هل hil مرده سنگ murdah-sang " (sugar of), litharge, ,, (white), safedā \ مفدد السي كا تيل alsī kā tel Linseed oil, هـــلّ Litharge, sugar of lead, مرده سنگ Murdah-sang هــلّ hil برده سنگ سل sil سل بقه sil-battah sil-battah عناس sil بسل بقه گيرو gīrū Ochre (red). ,, (yellow), multānī mi<u>tt</u>ī ملتاني مٿي, pīlī mi<u>tt</u>ī بيلي مٿي السي كا تيل alsī kā tel Oil (linseed), ترین تیل tarpan-tel ,, of turpentine, or spirits of, كريا ملى karī'ā mattī مصالح, karī' Putty (glazier's), surkh نسر خ lāl لال Red. سندور sandūr اینگر Red lead. Red ochre. گيرو gīrū ral JI, Resin or rosin, Sal ammoniac, inausādar نوسادر, naushādar Sandarach resin. روغن سندرس roghan sandaros kahrubā bas ,, gum animé, Sky-blue, æūdah so, a, ūdā lo, سل stone for grinding colours (muller and stone, sil-battah مسل, sil سل بقه

Styrax benzoin,

Bamboo.

Sugar of lead, litharge, هل hil مرده سنگ murdah-sang گنده فروزه gandah firozah Turpentine (common), ترين تيل tarpan-tel (spirits or oil of), roghan Varnish. يترائي برائي برنگار zangār إنگار Verdigris, isranj جنسا Vermillion, sulphuret of mercury, سفددا safedā White lead. كهڙيا مٿي kha<u>rr</u>iyā-mi<u>tt</u>ī Whiting, chalk, ييلا pīlā بيلا Yellow. بيلي مٿي pīlī mi<u>tt</u>ī ملتاني مٿي, pīlī mi<u>tt</u>ī Yellow ochre. .. (kind of). promi ung

XI.—THATCHING, WITH ITS TOOLS AND MATERIALS.

,, (piece of split) or two or three reeds tied to-

Flax or kind of flax from which ropes are made, and distinguished from sannī, the coarser kind, by being white, soft, and short,

Flax, the inferior kind, long and coarse, Framework of bamboo on which thatch is laid, Grass for thatching,

يهاتهه <u>tthātt</u>h'h يهوس يهوس phūs

بانس bāns

```
كانس kāns
Grass (coarse),
 ,, of the Saccharum cylindricum,
                                                                       ulu J.
                                                (small pūlī پولا), pūlā پولا
,, (bundle of),
                                                                 bhulnā Ide
 ., (first layer of),
                                                                 bhābar يهار
   ,, from which string or rope is made,
Hank or skein of thread,
                                                       \bar{a}\underline{t}\bar{t} آنٿي آ\bar{a}n\underline{t}\bar{t} آٿي
Hemp.
كنڌاسا kan<u>dd</u>āsā , كنڌاسى Instrument used by thatchers
                                                                 boriyā b,
Mat (small).
                                               boriyā بوريا, chattā'ī چٿائ
Matting,
          (made from the sarkandda),
                                                                  سرکی sirkī
Matted or thatched door)
                                  جهانپ jhānp, ٿٿي ttattī بٿتر
   or shutter,
Rafters (pair of), or roof-truss,
                                                               قينچي ken<u>ch</u>ī
         (cord for pulling and fastening the rafters)
                                                                ondh sich
           in their places until roof is finished),
                                                                   ىنىڭ bīndd
Reed, also reeds (bundle of), fascine,
     ر (description of), particularly its (sar-kan<u>dd</u>ā) المركندُّا
lower and thicker parts, (sar-kan<u>dd</u>ā) عبر كِندًا
       سركي (upper and thinner of), also matting of the same, sarkī سركي
                                                              سنٿيا sentthā
     (single slip or stem of),
                                                              اٿيرن a<u>tt</u>eran
Reel or hank of thread or cotton, etc.,
Ridge-pole,
                                                              بڙيري ba<u>rr</u>erī
                                                              قينچى ķen<u>ch</u>ī
Roof-truss, pair of rafters,
                                                      رسا rassā رسي, rassā رسا
Rope in general,
                                               sūt kī rassī سوت كى رسى
   ,, (cotton),
                                                 san \ k \bar{\imath} \ rass \bar{\imath} بان b \bar{a} n
   ,, (hemp),
   ., (munj),
Sheath of the Surkandda reed used in making sort of grass or fibre from which the above rope is made,
                                                 جهانپ jhānp, ٿٿي
Shutter (thatched or matted),
```

Skein or hank of twine, etc. اٿيرن a<u>tt</u>eran سوتلی sūtlī String, twine, ,, (of munj or other fibre), bān ul (of another kind of grass), بهایر bhābar chhān , chhappar Thatch. chhappar-band بند Thatcher, جهير بندي <u>ch</u>happar-bandī يلاني , palānī يلاني , <u>ch</u>happar-bandī ,, (grass), phūs س kāns كانس ,, (coarse), ulu , ,, (of the Saccharum cylindricum), Thatch (light temporary), يتى <u>ttattī</u> Thatched or matted door, جهانب jhānp, ٿتي <u>t</u>ta<u>tt</u>ar ٿتر Thread, string, twine, سوتلى sūtlī kenchī قينچى Truss (roof), or pair of rafters, Twine, string (cotton), sūt" ... atteran التين (hank or skein of),

XII.—ARTS AND SCIENCES.

A

Abscissa. watr ... jāzib wil Absorbent, جذب jazb , نوشيدگي Absorption, mughalak , ile. Abstruse. ghair-i-mumkin غير ممكن, muḥāl الح Absurd, بایه بیرونی یا کناره یل Abutment, and pāyah berūnī yā kinārah-i-pul Abutments of a bridge, مدود بل hudūd-i-pul ghār , ie, œumuķ , athāh sles Abyss, mutarā'id منزايد Acceleration.

مركت متزايد harkat-i-mutazā'īd حركت Accelerated motion, فرعت faræat فراز faraz ,گر بوء Acclivity, ascent, be-sar بعدم كله, ba-æadam-i-kallah بعدم Acephalous, بی رنگ be-rang Achromatic. ekurr " Acre. علقم æalkam مر murr, حريف, æalkam Acrid, صدمه اور مزاحمت یا دفع Action and re-action, sadmah aor muzāhmat yā dafaæ mās ماس, al-mās الماس Adamant, جوڙنا jamaæ karnā جوڙنا , jorrnā جوڙنا Add (to), Addition (arithmetic), mīzān "ijumlah das jorr ;, jamaæ , mutābik مطابق Adequate, چسپاني <u>ch</u>ep , چيپ <u>ch</u>ep , لپٿاو (hep جيپ مواصلت munāṣalat Adhesion. Æther. ائير as-ir alm-i-hana las ala Aerology, قياس هوا kiyās-i-hanā Aerometry, نگاه هوا nigāh-i-hawā Aeroscopy, مناسبت nunāsabat, munāsabat, مناسبت Affinity, connexion, اغاريقي aghārīķun Agaric, تجميع tajmīæ فراهم آوردگي Aggregate, ogh اوگه, farāham-ānardagī سزرعی mazraæī Agrarian, paun موا, hanā اموا Air. آله هوا نكالنے كے واسطے ālah hawā nikālney ke wāste Air-pump, ابیاض abīāz مرمر سفید, abīāz Alabaster. بهول شراب phūl sharāb Alcohol. ambīķ انبيتى, bhabkā بهبكا, bhattī بهتى Alembic, still, دم بند dam-band جبر و مقابله jabr-o-mukābilah ابكت گنت, jabr-o-mukābilah جبر

(negative quantity in),

```
ahlu-l-jabr الحبر
Algebraical,
Alkali,
                                        حرض hurz اشنار، hurz حرض
 " (fossil),
                                                          reh ,
                                   حرضي hurzā فر حرض, hurzā
Alkaline,
                                                       نهاد nihād
Allocation.
                                                      Ber الفتار
Allocution.
                                                 mustakill ا
Allodial.
                                       كاست kāhash كاهش, kāst
Alloy,
                       jabbah حمد, az āb kashīdah از آب كشيده
Alluvion,
Almanac,
                                       ينتري yantrī , تقويم
                                                         hajā Lsa
Alphabet,
                                                    hajānah ails
Alphabetically,
                                          ارتفاع irtifaæ سما
Altitude.
                                        irtifāæ-i-kutb ارتفاع قطب
        of the pole,
        (to measure an), irtifāæ paimūdah karnā ارتفاع ييموده كرنا
                                            خواليدين zūu-l-yadain
Ambidexter.
                                 ham-\bar{a}b\bar{\imath} ham t\bar{a}b\bar{\imath} هم آبی هم تابی
Amphibious,
                          تزوير حساب زمان tazwīr-i-hisāb-i-zamān
Anachronism,
              مشابيت mashābahat تطابق , taṭābuķ تجنيس, mashābahat
Analogy,
                         تغریق , tafrīķ karnā (تغریق), tafrīķ
Analysis,
                                      هندسه بالحبر hindsuh-bi-l'jabr
Analytical geometry,
                                          علم تشريح ailm-i-tashrīh
Anatomy,
                                                 تشریحی ta<u>sh</u>rīḥ-ī
Anatomical.
Angular, angulated,
                                zar u-tibr فوشه دآر, goshah-dar a
                                                جانورک jānwarak
An animal cube,
                           جهلي دار chhalī-dār , حلقه سا halķah-sā
Annular.
                                              دستهٔ دار dastah-dār
Ansated,
                                                     zāniyah wij
 Angle,
   " (acute),
                                      زاويه حاده zāniyah-i-ḥāddah
                                      زاویه بیرونی zāniyah-i-berūnī
   " (external),
                                  زاویه اندرونی zāniyah-i-andarūnī
   " (internal),
```

zāniyah-i-munfarijah az , i a , 1; Angle (obtuse), عابل zāniyah-i-mukābil عابل; ,, (opposite), zāniyah-i-kāīmah غايمه ,, (right), ,, (spherical), زاويد كروى zāniyah-i-kurnī ,, (solid), zāniyah-i-mujassamah anus & ,); zāniyah-i-rās راس ا ,, (vertical), زاويه تحتاني zāniyah-i-taḥtānī Angle of depression, ,, elevation, $zar{a}niyah$ -i-irtif $ar{a}x$ زآویه ارتفاع ,, friction, زاویه خدش zāniyah-i-khudish ,, incidence, زاویه اتفاق zāniyah-i-ittifāķ ,, inclination, زاویه میل zāniyah-i-mayl " reflection, زاويه مراجعت zāniyah-i-murājaæat قَطب جنوبي kutb-i-janūbī Antarctic pole, Ante meridian, or A.M. قمل الظير kablu-z-zühr قىل الدنيا kablu-d-dunyā Ante mundane, تحت الارض سكن taḥtu-l-arz-i-sakan Antipodes, , وتدالارض watidu-l-arz Antique, عتيق æatīk ديرينه العجز على الصدر alæajzo-æalaṣ-ṣadr Antistrophe, Antithesis. سعارضة muæārazāt Apex, $aar{u}$ راس $rar{a}ss$, تارک , $car{h}ouar{t}t$, اوج Apogeum, اوے سما aūj-i-samā التفات iltifāt Apostrophe (in rhetoric), Apparatus, machinery, etc., jantr alāt جنتر الات Appendix, تتمه tatimmah قرب kurb, نزدیکي nazdīkī Approximation, Apsis (higher) of a planet, اوچ aūj ,, (lower) ,, حضيض معتبي تيز آب tez-āb Aquæ fortis (acid. nit.), دارو daln برج آبي burj-i-āb-ī کمب daln کمب daln Aquatic, watery, etc., $\bar{a}b\bar{\imath}$ آبی, jal-jantu جنبر, jal-jantuكهريز kahrez ميزاب آبكور بقه , أبكور بقه , أبكذر Aqueduct, ab-guzar

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Aqueous, moist, etc., jal-jantu جلير, jal-char جلي, أيى , āb-ī جل
Arable, ṣāliḥatu-zirāæat صالحة الزراعت, lāyaķ-i-zirāæat لايتي زراعت
Arc.
                                                        kaws قوس
 ,, (segment of a circle),
                                      Ede ناير kitæat-i-dā'irah
                                                    miḥrāb باب
\operatorname{Arch.}
                                                رسم بنا rasm-i-binā
Archetype.
                                   معمار miæmār باني كار, miæmār
Architect,
                              معماري miæmārī بانيكاري bānī-kārī
Architecture.
                                                        دفتر daftar
Archives.
                                     دايره شمالي dā'īrah-i-shamālī دايره
Arctic circle.
                                       قطب شمالي kutb-i-shamālī
Arctic pole,
                                                 masāhat ساحت
Area.
                                                       sīmīn .....
Argent,
                                          طینی tīnī , پر گل pur-i-gil
Argillaceous,
                                برج حمل burj-i-hamal میش, burj-i
Aries,
                             علم اعداد ailm-i-aædād, حساب hisāb, حساب
Arithmetic,
                علم رقم يا غبار æilm-i-rakam, or ghubār سياق, æilm-i
                                                        yakan ...
           (units),
                            دهاك dahan دهائي , dahā'، دهن dahan دهن
           (tens).
           (hundreds).
                                                        مدر، şadan
     ,,
           (thousands),
                                                     هزاري hazāran
           (tens of thousands),
                                             ده هزاري dah-hazāran
           (hundreds of thousands).
                                                       لكي lakan
                                                     kroman .; 5
           (millions),
                                              ده کروژر، dah-krorran
           (tens of millions),
                                                     kharban ...
           (billions),
                                                       ttomnā U;5
           (to reduce),
           (carrying figures),
                                         تكسر taksīr تكسير, takassur
گنڪُ ganak رقمنجي rakmchī , محاسب Arithmetician, سيامتن
                                                       bakāyā لقاما
Arrears.
                                                         عيار æayār
Assay,
                                              عیار کرنا æayār karnā
   ,, (to),
```

عمار گر æayār-gīr Assayer, اسطرلاب usturlab Astrolabe. Astrology, علم نجوم ailm-i-nujūm دنجيم, tanjīm جوتش منجم munajjim بجومي jotishī , جوتشي Astrologer, علم هيت ailm-i-hai'at جوتك , hai'āt جوتك , æilm-i-hai'at ميُّت دان hai'at-dān جوتكهي Astronomer. Astronomical table, $z\bar{\imath}j \not = , z\bar{a}'\bar{\imath}\underline{ch}ah$ جدول j, jadnal جدول Asymptote, متنفر الملاقات mutanaffaru-l-mulāķāt Atmosphere, heavens, ether, firmament, havā المام, ākās مها, ākās الكاس hana'i slas Atmospheric, نره zarrah فري ي zarrī بلوكا, يِtūkā ري , يوك Atom, Attraction, $k\bar{u}nat$ -i-jazibah قوت جاذبه, $ka\underline{sh}i\underline{sh}$ کشش, jazb جذب كشش اتصال kashish-i-ittisāl ,, (of cohesion), كشش زمين kashish-i-zamīn ,, (of gravitation), khazān (); Autumn. miḥwar , Axis. Axle-tree, دهوري dhūrī as-samt السمت Azimuth (the),

В.

Balance, ترازو tarāzū, tarāzū, معادات كرنا muæādalat karnā, تلنا muæādalat بيا ,, (to), Bar, court of justice, ناتک phāttak اجلاس, phāttak برے burj ,باسطیوں bāstīūn باسطیوں کرنے kar<u>kh</u> کنگرہ دار kangurah-dār Bastion, Battlemented, يرتو partaw شعله shuælah رخش, partaw يرتو Beam, ray of light, Bear (Greater), دے اکبر dubb-i-akbar ,, (Lesser), دب اصغر dubb-i-asghar Belles Lettres. انشا inshā Benzoin (gum), styrax, سلاحت silājit Bibulous. jāzib — ja مضاعف munāṣafatan "مناصفة, muzāæaf مضاعف Bifarious,

كان do-shākhah د. شاخه kāz كان Bifurcated, Binocular, اهل دو چشم ahl-i-do chashm قاعده نيوٿن صاحب Binomial theorem, kāæidah-i-newton ṣāḥib Birdlime, شلم shalm نفط nafāt نفاط nift نفط Bitumen, naptha, سگه bīgah Bīgah (of land, 120 square feet), muḥāṣarah s, Blockade. ajsām اجسام Bodies, علم أنناتت æilm-i-nabātat Botany, خط وحدانيت khat-i-nahdaniyat Bracket. انگیتهی angetthī , تش دان Brazier, chafing-dish, Breadth, بات pā<u>it</u> بات $p\bar{u}l$ يل pul يول pulBridge (see Bridge-building, etc.) بردار bar-dar Broad, wide, بربرا burburā بربرا, burburā بربرا, burburā Bubble. غِتا ghattā گئتا, ghattā غَتا Bung, gag, plug, Burning-glass, آتشى شيشه āta<u>sh</u>ī-<u>sh</u>īshah

C.

علم جزيات و كليات ailm-i-juziyāt-o-kulliyāt كليات Calculus, سرطان saraţān کرک kark Cancer (the sign), nahr iy Canal, suhail Jum Canopus, برج جدي burj-i-jadī Capricorn (tropic), Capricornus, برے جدی burj-i-jadī مکر makar ساس آدهاری mās-ādhārī Carnivorous. اتفافى ittifak-ī Casual. silsilah alulu Catalogue, فلكي , falakī , قدسية Celestial, holy, كالبوت kālbūt قالب , ķālib قالب كالبوت Centering, mihnar ,550 Centre, or axis of a pulley, madār , la. Centre (a),

```
markaz $,...
Centre (the).
  ,, of the earth,
                          حضيض قعر زمين hazīz-i-ķaær-i-zamīn
                                           سركز ثقل markaz-i-sikl
  ,, of gravity,
                                      از میان گریز az-mīān gurez
Centrifugal,
    ,, force, kūnat-i-mutanaffaru-l-markaz قوت متنفر المركز
                     ى ميان نزديك كنا bah mīān nazdīk kunā نه ميان
Centripetal,
  قوت متعلق المركز force, kūwat-i-mutaæalliku-l-markaz قوت متعلق المركز
                                         عد حندان şad chandān
Centuple,
                           انگیتهی ange<u>tt</u>hī , آتش دان
Chafing-dish, brazier,
                        سنكل sankalī ,سنكلي, sankalī زنجير
Chain,
                                       با آهن آميز bā āhan āmez
Chalvbeate,
                                      هيولاي اولي hiyūlā'e annalī
Chaos.
Charge (as of powder, etc.)
تّب Check, money order (in geometry, a line, dash, crease), <u>ttip</u>
                                          علم كيميا æilm-i-kīmiyā علم
Chemistry, alchemy,
                                                         وتر watr
Chord,
  ,, (in geometry, a line, a dash, etc.),
                                         گھيہ ghīr لکھي likhīr
                                        تخطيط بلان takhtīt-i-bilād
Chorography,
Chorus,
                                                        upaj 📢
                                        رنج انگشت panj-angusht
Cinque-foil,
                                               صفر sunn سر، sifr مفو
Cipher (in arithmetic),
                                                     dā'īrah دايع
Circle.
                                     خفيفي دايره khafīfī dā'īrah
  ,, (centre of a),
                                                    برگار purgār
  ,, (made by compasses),
                                    شكل مستدير shakl-i-mustadīr
  ,, (mathematical),
                                جرکت استداره harkat-i-istadārah
Circular motion,
                                                        ijrā 1,-1
Circulation,
اورس چورس auras chau-ras گیر gher گیر, auras chau-ras
                                       muhīt-i-dā'īrah عيط دارع
             (of a circle),
                                     خط مستدير khatt-i-mustadīr
                                                     لقكى lattkan
Clapper (of a bell),
                                                       اقليم iklīm
Clime, region.
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```
Climate, temperature,
                                            ab-o-hawā اب و هوا
Clock or watch,
                                                   sāæat - Lelw
Cloud,
                                                        abr اب
Clouded, party-coloured, pie-bald,
                                           ايلق ablak ايري abr-ī
Coagulation,
                                        جِمارُ jamā'o أنتي āntthī جِمارُ
                   تار عنكيوت tanah جالا jālā , جالا , tar-i-æankabūt
Cobweb.
                                             سر sir امثال amṣāl سر
Co-efficients,
Cog of a wheel,
                                      دانتي dāntī کهونتي, dāntī دانتي
                                                    لييت lapett
Coil (a),
                                          عفر دت آسا æafrīt-āsā
Colossian, giant-like,
Colossus (a),
                                           بت عظیم but-i-æzīm
                                           ستون sutūn رکی
Column (see Building),
                                   در وجه ستون dar wajh-i-sutūn
Columnar.
                                 ijtimar{a}ا ختلاف ikhtilar{a}f اجتماع
Combination,
               آتش زدگی āta<u>sh</u>-zadagī آتش آنگیز ata<u>sh</u>-zadagī ﴿
Combustible,
                                            آتشگير āta<u>sh</u>-gīr
                          Combustibles,
                                            انبانک ambānak
                          افروختگي afrokhtagī سوختگي, afrokhtagī
Combustion.
             رم داريا دمباله ستاره dum-dar, ya dambalah sitarah
Comet.
                                        بوجها تارا pūchhā tārā
مقسوم عليه مشترك Common measure, maksūm-æalaihi-mushtarak
  ,, multiple,
                                 ضعف مشترك zaæf-i-mushtarak
Compass, circuit,
                                                   عبرا gahe-rā
                                            قطب نما kutb-numā
    ,, (mariner's)
                                        يركار pargār ,يرگار parkār
Compasses (pair of),
                                                 تمامي tamāmī
Complement,
                                      تمامي زاويه tamāmī zānīah
            of an angle,
                                            تمامي متوازي الاضلاع
            of a parallelogram,
                                      tamāmī mutnāzīu-l-azlāæ
                                      murakkab karnā U, S _ S,...
Composition,
                                               murakkab ______
Compound,
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musalsal Julius
Concatenated,
                                                  silsilah alulu
Concatenation,
                             سنبزم munhazam بجوف
Concave,
Concavity,
                                     jauf -, hazmat ;;
                                            ham-markaz $ ...
Concentric,
                  كانكريت jāmid جأمد, (the material), kānkrīt جأمد
Concrete, adj.,
مصادرت muṣādarat رعدت, raædat جركت, muṣādarat
Cone, makhrūtat جروطت, makhrūt-i-mustadīrah
                                   makhrūt-i-nāķiş مخروط ناقص
  ,, (truncated),
                                   injimād انجماد, tajmīd
Congelation,
                                      توشيع كرنا tanshīæ karnā
To conglomerate,
                                 تراشای مخروط tarāshī-i-makhrūţ
Conic sections,
                              سخروطة منسوب makhrūtat-mansūb
Conic,
                                       قران kirān اقتران, ķirān
Conjunction of the planets,
                                      ham-tabī@at مطبعت
avatār اوتار
Con-natural,
Co-ordinates.
                       خُلفَي <u>hh</u>alafī ,پي در پي pa'e dar pa'e ,
برج burj ,نکېشتر ,nakh<u>sh</u>atr ,کوکب
Consecutive.
Constellation,
                                                akhtar ختر ا
                                برج حمل burj-i-hamal برج حمل
             Aries,
                                                       ير, sawr
             Taurus.
                                 جوزا jawzā ,دو پيکرا , jawzā
             Gemini.
                             سرطان saratān خرچنگ kharchang
             Cancer.
                                             sher شير, asad اسد
             Leo,
                                 سنبله sumbulah خوشه khoshah خوشه
             Virgo,
                                                   mīzān i
             Libra.
                                                  عقرب æakrab
             Scorpio,
                                                    قوس kans
             Sagittarius,
                                                    jadī جدى
             Capricornus,
                                              دلو T, dalw آبي
             Aquarius,
                              سمت , kūt حوت , samak مين
             Pisces.
                                        mass مس, ittiṣāl اتصال
Contact,
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Context,
                                         متر , mattan متين
                                             لكتا لكت الكت lagtā-lagat
Continually,
Convex,
                              puj = kubbah-darقوز , k\bar{u}z فبه دار
Convexities (arches),
                                        (Pl. of ضلع azlāæ) اضلاع
Convexity,
                                 توزي بنه داري kubbah-dārī قوزي, ķūzī
                                                قرن آسا karn-āsā قرن
Corneous,
                   سنگ گوشهٔ sang-i-goshah ججر کنار hojar-i-kinār
Corner-stone,
Cornice,
                تاج ديوار tāj-i-dīnār ,كنكرة kankurah ,قرنس
Corollary (a),
                                       natījah نتيجة, itmām اتمام
                                           ريزه rezah ذرّة zarrah
Corpuscle (atom)
                            ريزه وار rezah-nār ذرّه وار , rezah-nār
Corpuscular,
                                              اکل lahs کس , akil
Corrosion,
                                   تابش tābi<u>sh</u> درخش, tābi<u>sh</u>
Corruscation.
                                          هیت دنیا hayt-i-dunyā
Cosmography,
                     iقب بر نقب بنانا nakab banānā نقب بر نقب
Countermine,
                  نغم زير نغم كهودنا nagham-zer-i-nagham-khodnā نغم
                                     اويلا uplā اويلى, uplā اويلا
Cow-dung (dried),
                                                    شفق shafuk
Crepuscle,
Cross-bar,
                                                   عرقوت æarkūt
                                  گله بند کشی golah-i-band ka<u>sh</u>ī
 ,, shot,
                                                       būtah نبوته
Crucible.
                                        بلور bilaur بهِڐک phattak
Crystal,
                                                     kaæb Les
Cube (a),
                                                  mukaæb Les.
Cubic.
                                                      dast "
Cubit.
                                              گاوه آسا gānah-āsā
Cuniform,
                                      خط منحني khaṭṭ-i-munḥanī
Curve line,
Curved,
                                     سايل munhanī منحنى, māyil
                                 با خط منحني bā khatt-i-munhanī
Curvilinear.
                                             \bar{a}b-tar\bar{a}ج تراش تراث
Cut-water.
           دور daur-i-shams دور قمر daur-i-kamr دور شمس, daur
Cycle,
```

Cylinder, $m\bar{u}\underline{t}$ بوت به istinānah-i-mustadīrah استوانه مستديره Cylindrical, $istin\bar{a}nah\ mans\bar{u}b$ استوانه منسوب Cyphers, in arithmetic, (Pl. of صفار $as-f\bar{a}r$)

D.

To dam, بندروغ بنانا bandrūgh banānā ,سد كرنا مقدمات معلومه mukaddamāt-i-maælūmah مقدمات Data. عشر asharah عشر عشر Decade. Decagon, سعشر mu'æa<u>shsh</u>ar Decimal (a), تعشير taæ<u>sh</u>īr عشار, taæ Decimal, adj. اعشا, ية æashārīyat كسور عشارية kusūr-i-æashārīyat fraction, علامت ايضاً يعني (٠) alāmat-i-ayzan yæanī point, میل کسی سیارہ کا طرف خط استواکے Declination, descent, (mayl kisī syyārah kā taraf <u>khatt</u>-i-istinā kī inhirāf انحراف (in astronomy), Declivity (down hill), شيب sheb Deep, unfathomable, كبرا gaha-īrā اتها athāh اتهاه , اتهاه Definition. حدود ḥadūd وصف naṣf Deflection, declination, inhirāf فارحراف Degree, darjah az,s Deluge, سلاب sailāb, جلارنو Demi. $n\bar{\imath}m$ نصف nasf نیم Denominator, نسب نما nasab-numā Density, كثافت kaṣāfat طول یا فاصلہ نصف النہارسے Departure, tūl yā fāṣilah naṣfu-n-nahār se گيبرائ gaih-rā'ī گنيهير Depth, Design, ijād ایجاد, mansūbah Descent, declination. انار inhirāf انار Dew. shab-nam من شب

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kutr , ed, natr ,
Diagonal,
                  az go<u>sh</u>ah tā bah go<u>sh</u>ah أز گوشه تاً به گوشه
                                        jantr جنتر, shakl شكل
Diagram,
                         Dial (sun),
Diameter,
                                                     kutr قطر
                                        al-mās الماس, hīrā أحدا
Diamond,
                                  میرے کی قلم hirey ki kalam
        pencil,
Diaphanous,
                                                شفاف shaffāf
                                                   sikkah &
Die (a),
                                               جزيات juziyāt
Differential.
                                 اب جزيات hisāb-i-juziyāt جزيات
           calculus,
                                     مندسه hindisah , قم
Digit,
                      اندازه andāzah ابعاد ثلاثه, andāzah اندازه
Dimension,
                                 sīdhā سيدها, mustaķīm
Direct.
                                            samt or simt
Direction.
                                                    دلىل dalīl
Director.
                                     خط بنیادی khatt-i-bunyādī
Directrix,
                                                     kurs قرص
Disc.
                                                      battā 🗓
Discount.
                                                āb-kār کار آپ
Distiller of spirits,
                                             آب کاری āb-kārī
        (the business of, and tax on),
                              قابلیت انقسام kābilīyat-i-inķisām
Divisibility,
                                   قسمت kismat تقسيم
Division (simple),
                              قسمت مرکب kismat-i-murakkab
        (compound),
                    مقسوم عليه maksūm æalayih مقسّم
Divisor, divider,
                                                  kāsim قاسم
                        باره ضلع کی شکل bārah zalaæ kī shakl
Dodecagon,
                                                     ghun ogs
Dry-rot,
                                                 سلایم mulāyim
Ductile.
                                                    paitth '
Duplicate (of bill of exchange),
```

Durability, Dysentery, diarrhœa,

Ellipsoid,

Emblem.

Embankment,

istikāmat ستقامت اتسا, atisār

baizah منف

īmā las

يند bhurā'o مربي, band بند

E.

بيوكمپ bhūkamp لرزه, larzah تزلزل, bhūkamp Earthquake, zalzalah &;; شرق <u>shark</u> پورب pūrab مشرق, shark East. آبنوس *ābnūs* آبنوسی adj. *ābnūs*), Ebony, جوش josh, عناصر æanāṣir Ebullition, effervescence, Eccentric, از میآن گریز az mī'ān gurez خارج المركز بيضوي Eccentricity of an ellipse, khāriju-l-markaz-i-baizawī Echo, قسما بازگشت , radd-i-ṣadā آواز بازگشت, radd-i-ṣadā رق صدا Rasafat کثافت, grahan کافت Eclipse, سرب گہیں یا گرھی gahan or grahan سرب گہیں یا گرھی (total), of the sun. kusūf Jus of the moon, khusūf imi طريق الشمس tarīku-sh-shams Ecliptic, سنطقة البروج mintakatu-l-burūj Eddy, bhaunra ا Efflux. ریزش reaish ریز rez Egypt, misr , Elastic. jihān جار, khezān Electrical, jāzib — i -بجلي *jazb, جذب jazb, كاه ر*بائي Electricity, *kashish* كشش Electricity, *kashish* Electric telegraph, دّاكّ بجلي ddāk bijlī دّاكّ Elements, principles, اسطقسات "astaksāt ارتفاع irtifāæ انگيز angez اونچائي ūnchā'ī Elevation. Ellipse, سفي baizanī

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Engine,
                                 كل kal ,ينتر yantra ,جنتر jantra
                                        كل دوخاني kal-i-dūkhānī
 ,, (steam),
                                                   کندن kandan
Engraving,
Enneagon,
                                                 mutassaæ •
Epilepsy,
                                                 اسمار apa-smār
Epilogue,
                                                 khātimah خاتمه
                                                  musānī مساوى
Equal, neutral,
                                                 musāwāt šlolumo
Equation,
     مساواة درجه اول (simple), musānāt-i-darjah-i-annal
        مساواة درجه دويم quadratic), musānāt-i-darjah-i-dūyam
        مساواة درجه سوم على هذا القياس ( third )
     order, etc.,) | musānāt-i-darjah-i-scum, æalā hazāu-l-ķiyās
                                               مساواة غير منقطع
        (intermediate),
                                   musānāt-i-ghair-i-munkatiæ
Equator, \underline{kh}att-i-iatidar{a}l خط استوا, \underline{kh}att-i-istinar{a} خط استوا
تلاهوا tullā hū'ā, معادات, sākin ساكي, tullā hū'ā عادات
                                 مساوى الاضلاع musānīu-l-azalāæ
Equilateral,
اعتدال الليل و النهار Equinox (the), iætidālu-l-lail o un-nahār
                                      اعتدال ربيع iætidāl-i-rabīæ
Equinox (vernal),
                                  اعتدال خريفي iætidāl-i-kharīfī
   ,, (autumnal),
                                       خط اعتدال khatt-i-iætidäl
Equinoxial line, equator,
                                                       sākā كاسا
Era.
                                                آزمایش āzmā'īsh
Essay,
                                              صفات ذاتیه اجسام
Essential property of bodies,
                                         sifāt-i-zātī'ah-i-ajsām
                                                   اخلاق akhlāk
Ethics,
                                                 aktīdus ( اقلىدس)
Euclid.
                                   تحرير اقليدس taḥrīr-i-aḥlīdus
Euclid's elements,
                                    تحسين تلفظ taḥsīn-i-talaffuz
Euphony,
Evaporation,
                               bukhār خر, naḥḥ خ, bakhīr خير, naḥḥ
Even number,
                                                     juft is
                                                  khodā'i كيودائ
Excavation,
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·	
Excess,	ادهکائی adhikā'ī
Excessive,	ادهكت adhik
Exchange,	ب <u>ٿ</u> ا <i>ba<u>tt</u>ā</i>
Exhalation,	rīķ Z
Experiment,	تَزْمَايش āzmā'ī <u>sh</u> بَجربه
Extension,	khichā'o
,, (in mechanics),	abæād-i-salāsah ئالاً عاد الله
Extraction of roots,	juzr lenā جزر لينا
Virtuados (بیرونی منحنی خط محراب کا
Extrados, ben	rūnī munķanī <u>khatt</u> miķrāb kā
	(-
F.	
Fabric,	sā <u>kh</u> t سخس
Fathom, $n\bar{a}m$, kāmat قامت, bām بام, bām بام
Felloe of a wheel,	dā'īr-i-æajalat سلج يان
Fibre,	re <u>sh</u> ah مشي,
Field-book, paimā'ish kī kitāb —	خسره <u>kh</u> asrah , پیمایش کی کتاب
Figure,	شکل <u>sh</u> akl شکل
,, (arithmetical), hindisah ئدىسة	رقم rakm عدد aædad, صفر, rakm م
,, (geometrical),	جذول jadnal
,, (equilateral), <u>sh</u> akl-i-musān	شكل مساوي الاضلاع vīu-l-azalāæ
(شكل مساوي الزاويه
,, (equiangular),	<u>sh</u> akl-i-musāwīu-l-zāwiyah
Fiery, flaming,	آتش بار āta <u>sh</u> -bār
,, (striking),	āta <u>sh</u> -zan زن آتش
Filings,	burādah sباده
Fire-engine (squirt, jack, etc.),	damkalā X
Firmament,	آسمان āsmān
Fixed stars,	sitārah-i-sanābit ستارى ئوابت
Flaming, fiery,	آتش بأر āta <u>sh</u> -bār
Flax (Linum usitatissimum),	اتسى atasī
Flexibility,	luchak 🕹 😓
	Y

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Fluid.
                                                      saiyāl , Ilii
                hisāb-i-juziyāt-o-kulliyāt كلمات وكلمات وكلمات
Fluxions.
                                        نقاط آتشي nuķāṭ-i-āta<u>sh</u>ī
Focus.
                                                        tipkā Li
      of a burning glass,
                          غما, ghubār كخا, ghubār دهنده
Fog, mist,
                                              chah-bachah &
Font for ablutions,
                                                      kūwat قوت
Force,
                                     قوت المركز ķūnatu-l-markaz
  " (centripetal),
  بركز (centrifugal), kūnat-i-mutanaffiru-l-markaz قوت متنفر ألمركز
                                      آهنگر خانه ā-hangar-khānah هنگر خانه
Forge,
                                          علم تحصين æilm-i-taḥṣīn
Fortification.
                                        معدني maædanī كاني, maædanī
Fossil, mineral,
Fossil (a).
                         جماد (Fossils, jamādāt جماد), jamād جماد
Foundation.
                                                      bunyād vini
                إليد خانه kalbud khānah صفار خانه, kalbud khānah
Foundry,
Fraction.
                                           maksur , مكس, kasr
                                           کسر مفرد kasr-i-mufrad
        (simple),
                                       کسر مرکب kasr-i-murakkab
       (compound),
                                           كسر واجب kasr-i-nājib
       (proper)
                               كسر غير واجب kasr-i-ghair-i-nājib
       (improper),
                                        كسر ملطف kasr-i-mulattaf
        (complex),
                                          kusūr-i aædad كسور عدد
Fractions of integral numbers,
                                          عدد کسور æadad-i-kusūr
Fractional number.
To reduce to fractions or fractional numbers, jabr karnā جبر کرنا
مالش māli<u>sh</u> رگز raga<u>rr</u> خدش <u>kh</u>udi<u>sh</u> حکیک, mālish مالش
                                      makhrūt-i-nāķiş سخبوط ناقص
Frustrum,
                                      سرکز حرکت markaz-i-harkat
Fulcrum,
                                        برقان bakhnū بخنو, barkān
Fulminating.
Fundamental.
                                                        اصلي aṣl-ī
Funnel.
                                                        purnī i,
                                پگلاٿ piglā<u>tt</u>, گداختگي
Fusion, Liquefaction,
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G.

Gamut (the), mithun روپيكر, do-paikar دوپيكر, jauzā انجوزا Gemini. Geography, علم جغرافيه æilm-jughrāfīah Geology, علم معدنیات æilm-i-maædanīyāt مهندسی muhandsī هندسه Geometry, Girder. شهتير shahtir التها Glare (as from sun or fire), آنچ ānch, تاو tā'o, تاب Glass, shīshah amam ,, (burning), آتشي شيشه ātashī-shīshah تشي ,, (hour), شيشة صاعت shīshah-ṣā-æat Globe. کره kurah جرم كره فلكى kurah-i-falakī ,, (celestial), كره ارضى kurah-i-arzī ,, (terrestrial), kurah-i-khurd کرہ خرد Globule. مقياس mikyās عقرب aakrab عقرب Gnomon (style of a dial), Graft (a). painand ييوند سرف و سو sarf-o-nahw, ویاکن Grammar, Gravitation. کشش ثقل kashish-i-sikl ثقل sikl ثقل Gravity, Greatest, common measure, maksūm-alīh-aæzam مقسوم اليه اعظم Ground-plan, رىسى بنا rasm-i-binā رىسى Grout. sandlah مندله

H.

Half-driven (stake, etc.),

Halo round the moon, or sun,

(sarāchah-i-shams سراچه شمس

Hemisphere, nisfu-l-dā'īrā الدايرا, nisfu-l-arz نصف الارض

Hemp (Cannabis sativa),

 $\left\{ egin{array}{ll} ext{musabbase} & ext{musabbase} \ ext{asimple} & ext{haft pahl$ar{u}$, $yar{a}$ goshah} \end{array}
ight.$ musabbaæ -----Heptagon, Hermes. مرمیس harmis هرمس, harmis مسدس musaddas Hexagon, شدس المستعملية المستع Hexagonal, مسدس musaddas Hippopotamus, اسب نيلاب asp-i-nīlāb, برنيق Hodiernal, im-rozī ام روزينه, im-rozīnah ام روزي یک گونه ek-gūnah پیک جنس Homogeneous, Horizon, Horizontal, افاقے afāķī بخافق مساوی ba-khāfiķ-i-masānī افاقے Horizontally, در طریق مساوی dar tarīķ-i-masāwī افق, dar Horoscope. $z\bar{a}'\bar{\imath}\underline{chah} \iff i, najm \iff$ Hour, ghanttah کہنتہ Hurricane, طوفان tūfān آب شناسی āb-<u>sh</u>ināsī Hydraulics, Hydrostatics, علم آب æilm-i-āb majāz بعيد البيضوي, baæīdu-l-bayzanī بعيد البيضوي Hyperbolic, majāzī محازى Hyperbolical, وتر مثلث قايمه الزاويه ر منت کایمه الزاویه { natr-i-musallas kā-īmu-z-zānīah Hypothenuse, of a triangle, karan ... egie, فرض کیا هوا anu-mān ان مان, farṣ-kī'ā hū'ā فرض Hypothesis,

Icicle, Igneous, Impenetrability, Impulse (effect of one body) acting on another), Impulsive force, Inch (an), a finger or thumb,

كلفشنگ kalam قلم, kalfashang قلم ناري آ, nārī تشي , nārī استناع تداخل imtanāæ-i-tadākhil قوت دفعت kūwat-i-dafaæat تسویق tasnīķ قوت محركة ķūnat-i-muḥarrikah angul Lil

Incrusted, اندود andūd nāķis ناقص Incomplete, Index (an), namūn ,,,,, numā wi Indigestible, a-pathyah التيية بد هضمي bad-hazm-ī Indigestion, عدم تحرك æadam-i-taḥarruk عدم تحرك, æadam-i-taḥarruk عدم Inflammability, نوت سوز kūnat-i-soz, احتراق Inflammable, سوز يذير soz-pazīr بهگات phugātt Inflation. در آمد dar-āmad وصول wuṣūl Influx. Ingot, سلاخ sallākh Inlet, jet-d'eau, خلَّصي بنبا <u>kh</u>alāṣī-i-bambā, منبع Insertion. ادخال idkhāl kabīsā Lund, kabīsah dund Intercalary, ., year, leap-year, sāl-i-kabīsah مسل كسسة Integral calculus, الله كليات كليات كليات كليات كليات إلى المالية إلى المالية المالية المالية المالية المالية المالية المالية الم Interjection, harf-i-nidā \si _____ مترس كرنا , mataris karnā مورجل بنانا To intrench, morchal banānā Intrenchment. مورچل mataris مورچل سل sailāb سيلاب, sail سيل Inundation, Invention, ibdāæ إلداء mihrāb-i-muækūs معراب معكوس Inverted arches. Involution. معود şaæūd دينج To irrigate, āb denā اب دينا Irrigation, آسارى āb-yārī Island, بزيره jazīrah, ٿايو Isthmus, گردنه زمین gardanah zamīn خاکنای, gardanah J.

Jet d'eau. Joint. Joist.

ننا bambā جوڙ jom , بهيري $t\bar{\imath}r$ تير, $j\bar{a}'iz$ جائز, $shaht\bar{\imath}r$

```
فىشترى mushtari برهسيت, mushtari
Jupiter,
                               K.
                                      دات محاب ddātt-i-miḥrāb
Key-stone,
                                        سنگ در میان کمر عارت
           (of an arch),
                             sang dar-mī'ān-i-kamr-i-æimārat
                                                       شفي <u>sh</u>afī شفي
Labial.
                 کار خانه کیمیاگر kār-<u>kh</u>ānah-i-kīmiyā-gar
Laboratory,
                                               الأك lākh لاكيه lāk
Lac (gum), also sealing-wax,
Lamina,
                                     علت , tabak , صفيحت safī-hat
                                         مفیحت دار şafī-ḥat-dār
Laminated,
                                       دوده چراغ dūdah-i-chirāgh
Lamp-black,
                                                  hakkāk كاك
Lapidary,
                                        الجورد lājward كرجورد, mīnā
Lapis-lazuli,
                                            je بوم zamīn بوم
Land.
.. (waste),
  " (where water may be found near the surface),
                                                    انوپ a-nūp
        also adj., wet, damp, etc.,
                      غايب مخفى makhfi , مخفى, ghā'īb بنهان
Latent.
                                      جانبي jānibī جنبي
Lateral.
         battar{\imath} bar{a}ns kar{\imath} بتی لگڑz کی battar{\imath} bar{a}kar{r} بتی بانس کی
                                       kharāt bl , kharād si, s
Lathe (turning),
                        عرض جarz , يهنائ pahnā'ī وسعت, æarz
Latitude.
     (degree of), darjah-i-æarz yā pahnā'ī درجه عرض يا پهنائي
                                                bisāt blu, tah ar
Layer, stratum,
                                        شق shigāf شگاف, shaķķ شش
Leak (a),
                                          sāl-i-kabīsah كسسة
Leap-year,
                                                    المبائ lambā'ī
Length,
                                   المبائ حوزائ lambā'ī chaurrā'ī
Length and breadth,
```

```
a'īnah آئينه, shīshah ششه
Lens,
                                                                                    ششه محوف shīshah-i-mujawwaf
    ,, (concave),
                                                                                  شيشه محدب shīshah-i-muḥaddab
    ,, (convex),
                                                                                         shīshah-i-musattah
 ,, (plane),
                                                                                                                singh'h سنگيه, asad اسد
Leo,
                                                         لِيُولَنگ lewaling تمليق كرنا, lewaling
Levelling,
                                                                                                     هموار کرنا hamwār karnā
                                                                      چاڙ chārr , ڌرازو tarāzū , ٿنڌي ddanddī
 Lever.
                                                                                               چاڙ يا ترازو يا ڏنڌي خمدار
                                                      chārr, yā tarāzū, yā ddanddī khamdār
    ,, (bent),
Libra,
                                                                                                                     ميزان mīzān ,تلا tulā
                                                                                                                                     روشنی ro<u>sh</u>anī
Light,
                                                                                                                                               کرش "kar<u>sh</u>
      " (reflected),
                                                                                                                     بجلي bijlī رِبرق barķ
Lightning,
                                                                                                                     چوناً <u>ch</u>ūnā, جُهِي
Lime,
Line.
                                                                                                                                               khatt 1
                                                                                                خط مستقيم khatt-i-mustaķīm
    ,, (straight),
                                                                                                    خط منحني khatt-i-munhanī خط
 ,, (curved),
                                                                                                 خط متوازي khatt-i-mutanāzī خط
    " (parallel),
                                                                                                                                  khattī خطى
 Linear,
                                                                                                                     کڙا karrā کڙي, karrā کڙا
Link (of a chain, etc.),
                                                                                                    سردر sardar ,سر در
 Lintel,
                                                                                   gudar{a}\underline{k}htagar{\imath} گداز , gudar{a}z گدار
 Liquefaction,
                                                                                                                                         saiyāl سال
 Liquid,
                                                                                                                   تحت لفظي taḥt-lafzī
 Literal,
                                                                                        حياله شكنت عليه المجالة المجا
 Lithographic press,
                                                                                                        حيايه يتي <u>ch</u>hāpah-patthar
                        stone,
                                                     harkat az jā ba-jā حرکت از جا بجا, sair مرکت
 Locomotion,
 Logarithms,
                                                                                                                                   لوگارثم logārsum
                                                                                 علم منطق æilm-i-mantik قرك , æilm-i
 Logic,
       ,, (a negative sentence),
                                                                                                                                          sālibah allu
       ,, (an affirmative proposition),
                                                                                                                                   mūjibah خب
```

Longitude, قيب ķīb, ķīb طول ,, (degree of), درجه طول darjah-i-tūl با درازی منسوب bā drāzī mansūb Longitudinal, Luminary, نور nūr روشني roshanī Luminous, نوراني nūrānī ,منور Lunar, قمرى ķamarī دن یا روز قمری tith'h تتهه din, yā roz-i-ķamarī, تتهه ,, day, Lunated. ملال آسا hilāl-āsā هلال Lunette, māh-chah asal.

M.

كل jantr منتر, manjanīķ منحنيق, jantr كل, kal Machine, Machinery, مَاجِنيقي manjanīķī , آلتي Magazine, انيا, ambār مقناطيس maknātīs, سميك chambak Magnet, آهن کش منسوب āhan-kash mansūb Magnetic, (needle). قله نما kiblah-numā خبرة نما kiblah-numā قله قدرت مقناطيس kudrat-i-maķnātīs Magnetism, kūwat-i āhan-kash قوت آهن کش miḥwar-i-kalān محور كلان Major axis, nakshah-i-zamīn نقشة زميرن Map, sākht = w Manufacture, fabric, Mars (planet) { mirrīkh مريخ , bahrām إنهرام , jallād-i-falak جلاف فلك mangal Jim ىسنىڭ معماري sang-miamārī سنگ سازي sang-sāzī Masonry, مقدار ماده mikdār-ī-māddah اجزا جسم ajzā-i-jism Mass, Match, wick, فليته falītah, بتي علم , ياضم ailm-i-riyāzī علم , ياضم Mathematics. Matrice (a), kālib كال , sānchā المنافية Matter, māddah solo ziyādah se ziyādah عني زياده سے زيادہ Maximum, جد زيادتي ḥadd-i-ziyādatī

Mean, ausat buel Measure, paimānah silvu Measuring-rod, آهل پیشه ahl-i-peshah کاریگر, ahl-i Mechanic (a), علم منجنيق æilm-i-manjanīk علم آدات jarr-i-ṣaṣṭīl , جرثقيل jarr-i-ṣaṣṭīl Mechanics or mechanism, Medicine (science of) tibb de masāḥat ---Mensuration. عطارد æutārid ، تير , eutārid عطارد Mercury (planet), (mineral), سيماب sīm-āb بار sīm-ab نصف النهار nisfu-n-nhār , ظهري zuhrī , ظهر قايم الظهريه kā'īmu-z-zuhrīah جلمانس jal-mānus, بنت البحر Merman or mermaid, bintu-l-baḥr Metal, metallic, muhl معدني, maædanī معدني علم فلزات æilm-i-filizzāt Metallurgy, Metals. فلزات filizzāt tashbīh amin Metaphor, al-hai'āt علم علم, al-hai'āt Metaphysics, Metempsychosis, التناسخ at-tanāssukh غياب shihāb Meteor, Mica, talc, ابرک abhrak ابیرک abrak $purbar{\imath}n$ پرېيى, $\underline{kh}ar{u}rd$ - $bar{\imath}n$ خوردېيى Microscope, کیکشار، kahkashān Milky-way, galaxy, كان kān كيار , khān معد , kān كار Mine. كاني muhl معدني, maædanī مريل, kānī كاني Mineral. Minerals, madaniyāt عدنيات علم معدنیات æilm-i-maædaniyāt Mineralogy, Minimum, kam se kam کہ سے کہ hadd-kamī حد کمی miḥwar-i-khūrd عور خورد Minor axis, سراب sarāb دهوكيا Mirage, Mirror. ā'īnah آئىنە

,, (concave). ā'īnah-i-muķaææar or majannaf آئينه مقعريا مجوف

Mirror (convex), آئينه محدب ā'īnah-i-muḥaddab آئينه Mist, fog, fume, bukhār K Mixed, adulterated, āmekhtah zistol Momentum, oces sadmah Monogram, ramz ; Mood (in grammar), sighah sim Moon. chānd حاند, māh sho, kamar .. (new). hilal, Illa ,, (full) ىد, badr اجتماع قمريا ماه in conjunction, ijtimāæ-i-kamar, yā māh اجتماع قمريا ماه ,, in opposition, mukābalah-i-kamar, yā māh مقالله قمريا ماه Moon-beam. shuælah-i-māh st. alem Moon's disc, قرص قمر یا ماه kurṣ-i-kamar or māh قرص Moonlight, moonbeams, ماهتاب māh-tāb, māh-tāb, حاندني Moral philosophy, علم اخلاق æilm-i-akhlāk maṣālih مصالح Mortar, cement, etc. مصالح آبی maṣāliḥ-i-ābī Mortar (hydraulic), harkät حرکت Motion, action, ,, (retrograde), rajæ-i-kahkarī جال bakrī chāl رجع قهقري bakrī chāl رجع جرخی متحرک charkhī-i-mutaḥarrik Moveable pulley, مضروت فيه mazrūb fīhi Multiplicand, ضرب zarb, تكاثر Multiplication, pahārrā lily table, خرب كننده zarb kunindah Multiplier (a), غرب كرنا zarb karnā To multiply, ربى ribbī هازارها hāzārhā Myriad (a),

N.

Nadir, Natural philosophy, Negative,

" sentence in logic.

سمت القدم simtu-l-kadam علم طبيعي æilm-i-ṭabīæī نفي naf ī sālibah ساليه

```
musānī مساوى
Neutral,
                                         سینه کونڈی sīnah-kon<u>dd</u>ī
Nightmare,
                                        اليلي laylī شبانه shabānah
Nocturnal,
Nomenclature.
                                                      lughat is
Nominative,
                                                       faæil dele
Nonagon,
                                                     mutsiæ -
                                             عدم مقاومت یا تردد
Non-resistance,
                           æadam-i-maķāwamat, yā taraddud
Normal,
                                                      camud see
  orth, اوتر ūttar اتر uttar اتر uttar اتر orth, اوتر orth, اوتر orth, اقر orth, اقر or kuṭb-i-<u>sh</u>amālī اور, or kuṭb مميرو, pole, sumerū قطب
North,
                                                       ىادىت bā-eb
North-west.
                                                        اترا uttarā
Northerly, northern, and north-wind,
Northing (passing of sun from N. to S.),
                                                 uttar-āyan וב,וביו
Noun,
                                                          ism اسم
Numeration.
                                                       گذت ganit
Oblique,
                      غير عمود <u>gh</u>air-i-æamūd خم عمود
 ,, angle,
                                     زاويه حاده zāwiyah-i-hāddah
                                            مثلث حادة الزاويه
   ,, angled triangle,
                               muşallaş-i-hāddatu-z-zāniyah
Oblong,
                 مستطيل mustatīl , مصنبع musambaæ , مطر
Occidental,
                                                  maghrabī مغربي
                               ري daryā كر ي, baḥr-i-muhīt عيط
Ocean,
Octagon (an), hasht goshah dar تثمين, tasmīn هشت گوشه دار
Octagon, or octagonal,
                                                 musammin .....
                                                      kaḥḥāl
Oculist.
                                                 musammin .....
Octangular,
Octave.
                                        sāmin نامنه, sāminah ثامن
Octuple,
                                                مشت تا hasht-tā
Ocular,
                                     بصري baṣarī چشمي <u>ch</u>a<u>sh</u>mī
```

```
Ocular demonstration,
                                               mushāhadah samla.
                            اهل قوت شامه ahl-i-kūwat-i-shāmmah
Olfactory,
                                 انبخ ambakh, نا شفاف, ambakh انبخ
Opaque,
                                           غير شفافي ghair shaffafī
Opacity,
                                             افيم afyūn افيون, afīm
Opium,
                        باصرت ييوند başarı painand بصرى, başirat painand
Optical,
                       علم مناظر و مرايا æilm-i-manāzir-o-murāyā }
Optics (science of),
                                             علم بصر æilm-i-baṣar
Orb, sphere, circle,
                          ردايره dā'īrah جمير, chambar حمير, girdah گرده
Orbicular,
                                  مستدير mustadīr ,مدور
                               داير dā'īrah داير , dā'īrah مدا, dā'īr
Orbit (an),
                                                        jabbār اجار
Orion.
                                   رسم الخط rasmu-l khatt املا imlā املا
Orthography (science of),
Oscillation,
                        جنبش باد jumbish-i-bād, پیپ آسا
                                    بيضاوي baizānī بادامي
Oval.
                                              اوت ot افزونی afzūnī
Overplus, surplus,
                         b\bar{a}-yiz بایض, an-\underline{dd}el انڌan-\underline{dd}aj
Oviparous,
                                 Ρ.
                                  مقلوب مستوى maklūb-i-mustanī
Palindrome.
                                                           abrī ابری
Paper (marble),
                                  قريب البيضوي karību-l-baizanī
Parabola,
                                  قط مكاني kataæ-i-mukāfī
                                     ikhtilāf-i-manzar اختلاف منظر
Parallax.
                    سيوازي muḥazī استوا, istinā استوا, mutanāzī متوازي
Parallel.
خط متوازي Rarallel line, khatt-i-istinā خط استوا, khatt-i-mutanāzī خط متوازي
                     \underline{shakl}-i-mutanar{a}zar{\imath}u-l-azlar{a}a شكل متوازي الاضلاع
                                                mustatil مستطيل
                                                     a-pattak الثَّثُ
Paralytic,
                                                       mudder ....
Parapet,
                                     سراچه شمس sarāchah-i-shams
Parhelion.
                                   سراجه آفتاب sarāchah-i-āftāb
```

```
juz ;
Parsley (apium involucratum),
                                                   ajmūd sas
                                     فرش far<u>sh</u> کيرنجا
Payement,
                      ياي عود pā'e æamūd, بن ستون pā'e amūd
Pedestal.
                                    يسرم كا قلم surmey kā kalam
Pencil (black lead).
                                   گهڙي کا لٿکي gha<u>rr</u>ī kā la<u>tt</u>kan
Pendulum,
Peninsula or island,
                                                   jazīrah sz;
                                   بنبه گوشه دار panj go<u>sh</u>ah dār
Pentædrous.
Pentagon or pentangular, \left\{ panj\ kinar{a}r\ , wukhammas بنج کنار, mukhammas بخمس
                                            رنے گونا panj gonā رنے
                                                    dā'īrah solo
Periphery,
                                 ستافند sitānand ستاوند, sitāfand
Peristyle,
Perpendicular (geometry),
                                                     amud s
                                           khatt-i-æamūd 3,8 5
                                  خط مستقيم khatt-i-mustaķīm
                                          دور مدام daur-i-midām
Perpetual motion,
Perspective in painting,
                                                دور نما dūr-numā
                                      maæjūn-nāmah نامه
Pharmacopæia,
                       نادره nādirah , نمایش نادر nādirah , nādirah
Phenomenon,
Philologer (a),
                                                 mujannid s
Philosopher (a),
                                                     hakīm حكيم
                                  من پیوند hikmat painand کمت پیوند
Philosophic, or philosophical,
                                           hakīmānah ailada
                         فلسفه filsifah علم حكمت, filsifah
Philosophy,
            (natural).
                                         علم طبيعي æilm-i-ṭabīæī
                                       æilm-i-hikmat - La
Physics,
                                           æilm-i-najah & , de
Physiognomy (science of),
                                       شلم قيافه cilm-i-kiyāfah
                                               بندروغ bandrūgh
Pier (wharf), or mole,
                                        تبود گنید æumūd-i-gumbad
                         پایه در میانی پل pā-yah dar-mī'ānī pul
الين ulīn ، چود صغير æumūd-i-ṣaghīr , ستونيية, ulīn ستونية
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```
Pillar,
                            ستون sutūn , پايه pā'yah کيمب khamb
                                                       nalī, نالي
Pipe,
سمڭ متعلق samak mutaæallik, ماهي منسوبPiscatory, māhī-mansūb,
Pisces (sign of Zodiac),
                                          mīn مين, samak شمك
                       سطح مستوي sath-i-mustani هامون hāmūn
Plane,
                                   زاویه مسطح zāniyah-i-musattah
Plane angle,
                      سايره sāyrah ,ساير, sāyr بساير, sāyrah
Planet,
Plaster.
                   ريخت استركاري, usturkārī استركاري, rekhtah ريخته
                                        يروين parnīn , ثريا
Pleiades,
Plotting,
               پيمايش كا نقشه بنانا paimāish kā naķshah banānā
Plug or bung,
                                                        غتا ghattā
                                 hinj\bar{a} مسول sol مساقول, sak\bar{u}l مساقول, sol
Plummet or plumb-line,
                                               hinjārah s, Lais
Plus (+),
                                      musbit مثبت, jamaæ جمع
Pneumatics.
                          علم هوا æilm-i-rūḥ علم روح, æilm-i-hanā
                                           نقطه nuktah ,دهرو dhrū
Point.
  ", tip-top, etc.,
                                                   sir سر، anar{\imath}
                                     nuktah-i-iætidāl اعتدال
  " (equinoctial),
                                                   انی دار anī-dār
Pointed, sharp-pointed,
                         قريب القطب karību-l-kutb, قطبي kutbī, karību-l
Polar,
                                         قطب kutb رهرب dhrub
Pole,
                             قطب ستاره kutb sitarah, قطب شعاره
  ,, star,
  ,, (the north)
                                      قطب شمالي kutb-i-shamālī قطب
  ,, (the south),
                                       قطب جنوبي kutb-i-junūbī
                                                    kutbain .....
Poles (the two)
                            شكل كثير الاضلاع <u>shakl-i-kasīru-l-azlā</u>æ
Polygon,
                                   kasratu-l-ajnāb كثرت الاجناب
Polygonal,
                                           بعد الظهر baædu-z-zuhr
Post-meridian (P.M.),
                                                 musabbat ......
Positive.
                                          شخار shakhar کهار shakhar
Pot-ash,
                                             قوت kūnat زور cor قوت
Power.
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```
Preamble.
                                   قابل النفاذ kābilu-n-nufāz
انقلاب نقاط اعتدال Precession of the equinox, inkilāb-i-nukāṭ-i-iætidāl
Press (squeezing),
                                       کو ایو kolhū
Principle,
                                                 usub Jool
Printing (art of),
                                جِهَاپ chhāp چهاینا chhāp
                                جهایے خانه chhāpey khānah
,, press,
Prism (a), ustunānah استوانه, manshūr موشور, manshūr منشور
                                     سوشوری manshūrī
Prismatic,
Pronoun.
                                               zamīr ضمير
                                               نبوت subūt
Proof,
                           خاصت khāssiyat خاصت
Property,
Proportion,
                                            تناسب tanāsub
                                        سلسله جمع و تفریق
         (arithmetical),
                                   silsilah-i-jamaæ o tafrīķ
                                       سلسله ضرب و تقسیم
         (geometrical),
                                    silsilah-i-zarb o taķsīm
                            اربع متناسبة arbaæ-i-mutanāsibah
         (rule of three),
                                    تري راشک trī-rā<u>sh</u>ik
                            سته متناسبه sittah-i-mutannāsibah
         (double rule of three),
                                   ينج راشك panj-rāshik
                        عروض æilm-i-æarūz علم عروض, æarūz
Prosody,
Pulley,
                                 گهرني ghirnī چرخي, gh
  ghirnī yā <u>ch</u>ar<u>kh</u>ī-i-mutaḥarrik
Pure, unmixed, etc.,
                                   ابوت <u>kh</u>āliş خالص, apūtt
Pyramid,
                             makhrūt-i-muzallaæ مخروط مضلع
                            Q.
```

Quadrangle, also a مسكل مربع $\frac{shakl-i-murabbaæ}{court or square}$ مسكل مربع $\frac{chakar-goshah}{c}$ مربع Quadrangular, $\frac{chakar}{c}$ $\frac{chakar}{c}$ $\frac{shak}{c}$ مربع $\frac{chakar}{c}$ $\frac{chakar}{c}$ $\frac{chakar}{c}$

Quadrant (astronomical), basīṭah بسيطة, rubaæ dāʾīrah ببيطة, Quadrilateral, <u>ch</u>ahār go<u>sh</u>ah-dār جهار گوشه دار, murabbaa اربعه arbaæah اضعاف azæāf چهار چند arbaæah , و مار چند Quality, khāssiyat خاصدت Quantity, mikdar اعدار Quarantine, chillā 1 (to perform), حلا كهينك chilla khainchna کان سنگڪ kān-i-sang کان سنگ Quarry, گياٿ ghātt Quay, wharf, یری barī Quicklime, Quicksand, درد ریگ duzd-reg panj-to بنج تو, khamsat-i-az $a\bar{a}f$ خمست اضعاف Quintuple, پنج گوشه دار panj go<u>sh</u>ah-dār , مخمس Quinquangular, *mukhammas* bahrah s Quota, Quotient (in arithmetic), حاصل ḥāṣil مبلغ, ḥāṣil

R.

Radical, a lpha lاصلی ، z ar a t ar tRadii (of wheels), فراش farāsh نصف قط nisf-i-kutr Radius. چهت کے تینچي کي ترچهي کڙ*ي*} کا <u>ch</u>hat ke kɛn<u>ch</u>ī kī tir<u>ch</u>hī ka<u>rr</u>ī Rafter, قوس قزم kans-i-kuzah دهنک dhanak Rainbow. $\underline{sh}\bar{a}\underline{k}h$ $afr\bar{a}z\bar{\imath}$ شاخ افرازي, $ta\underline{sh}e\bar{\imath}b$ denār-i-kalæah ديوار قلعه Rampart, or rampire, sohān ... som Rasp (coarse file for wood), Ratio, misbat نسبت, andāzah اندازه, naj'h حسب, hasb muntik , Rational (in opposition to a surd), shuæāæ çlem Ray, پس کش pas-kash باز جست, bāz-jast وتج Recoil, گوشه مستقیم دار goshah-i-mustaķīm-dār Rectangular,

```
بوند کی بوند būnd-kī-būnd
Rectified (double distilled (
                            شراب دو آتشه sharāb-i-do-ātashah شراب دو
  spirit),
                             خط مستقيم دار khatt-i-mustaķīm-dār
Rectilinear,
                                                    izæāf Liebel
Reduplication,
Reflection,
                                   انعكاس شعاءِ inæikās-i-<u>sh</u>uæāæ
                                                  maækūs سعكوس
Reflex.
                                   inḥirāf-i-shuæāæ انحراف شعاع
Refraction.
                               انصنائي شعاع inḥinā'ī-i-shuæāæ
                                    شكل منتظم shakb-i-muntazam
Regular figure,
                                                 inæikās انعكاس
Re-percussion,
Residue, surplus,
                                                     ba<u>ch</u>tī چتى:
                       مقارمت mukānamat مزاجت, mukānamat
                                          mumānaæat عمانعت
Rest and motion,
                              سكونت و حركت sukūnat-o-ḥarkat
Result,
                                                    natījah محتنا
Resultant,
                                                 muhassal صحصل
Resultant of force.
                                        زور محصل zor-i-muḥaṣṣal
Retrograde,
                متراجع mutarājiæ راجع, rājiæ يس يا
Reverberation.
                                              radd-i-ṣadā مدا
                                  تمانچهٔ دوار tamānchah-i-daunār
Revolver (a pistol),
                                        سفسد کش mufsid-kush
Revolving,
                                                     daunār , ,,
Rhomboid,
                                   شبيه معين shabīh-i-muæayyan
Rhombus.
                                                 muæayyan ....
Ricochet.
                              ر (v. <u>ttappā khānā الله ttappā</u> ليا <u>ttappā</u>
                                           ریده rī<u>dd</u>'h رید, magar
Ridge,
Rigid,
                                           sakht karrā الله عند sakht karrā
Rill (a),
                                                         nahr in
Row, range, continuous line,
                                              ابلي abalī صف şaf
In a row,
                          اولتي سولتي auli-sauli صف صف مولتي
                               اربتے متناسبه arbaæi-mutanāsibah)
Rule of Three (single)
                                         تى داشك trī-rāshik
```

ىستە مىتناسىيە sittah-i-mutanāsibah

```
Rule of Three (double).
                                          پنج راشک panj-rāshik
                                 S.
Sagittarius,
                                             قوس kaus دهن, kaus
Sail (of a boat, etc.),
                                             بادبان bādbān بال pāl
Salient.
                                     جهنده jihindah خيزان
                                                , بت ret ریگ reg
Sand,
  ,, (fine),
                                                           ret\bar{\imath}ريتى
                                        زحل zuḥal سنيچر, zuḥal
Saturn,
Scaffold,
                                                    يار pārr إلى pārr إلى
Scale, gradation,
                                                         تدریج tadrīj
مثلث مختاف الاضلاع Scalene triangle musallas-i-mukhtalafu-l-azalāæ مثلث مختاف
Scantling (a)
                                             katæ قطعه kitæah قطع
                                            علم eilm بد vid و wid بد
Science.
Sciences (the),
                                                         æulūm علوم
                                      عالم æālim ودياوان, æālim عالم
Scientific.
Scintillation, sitar{a}r-afganar{\imath} ستار افگني, zakhar{\imath}kh afshar{a}nar{\imath} زخايخ افشاني
                                                          nyārā المارا
Scoria.
                      عقرب bichhū جي, aakrab برسجك bichhū
Scorpio.
Screw.
                                               pench , pech , pech
                       samudr سمندر, or samundar سمدر, bahr 🔀
Sea,
                                           موسم nausim ايام
Season.
                                              کری karan سب
Secant.
Second (a),
                                              ىل pal دقيقه daķīķah
Section, adhyar{a}yar{a} ادهیایا, nak\underline{s}hah-i-tarar{a}\underline{s}h تراشtarar{a}\underline{s}h
,, (division),
                                             قطعه kitæah فصل
Sector,
                                                         katāæ قطاع
                                  قاش kism قاش, faşlah فصله, kāsh قاش
Segment,
                                          قطعه دايره kitæah-i-dā'īrah
        of a circle,
                                         قسم دایره kism-i-dā'īrah
نيم دايره nīm-dā'īrah ، نصف الدايره , nīm-dā'īrah ، نصف الدايره
```

```
Series.
                                                    silsilah alulu
                             سس حادہ <u>shash-kh</u>anan
شش گوشهٔ دار <u>shash-gosh</u>ah-dār
                                        شش خانه shash-khānah خانه
Sexangular,
                      سته اضعاف shash-ta شش تا sittah-i-azæaf شش
Sextuple,
Shadow.
                                          waks , sāyah alu
Shallow, not deep,
                                            uth-la اتعلا , uthal اتعلا
Sidereal time.
                                  زمانهٔ کوکبی zamānah-i-kan kabī
                        جيب مستوي jeb-i-mustan \bar{\imath} جيب تمام
Sine, cosine, and
versed sine of
                        بيب معكوس يك قوس كي , jeb-i-tamām
                                      jeb-i-maækūs ek kaws kī
  an arc,
جيب و مماس و سهم Sine, tangent, and secant, jeb o mamāss o sahm
Siphon,
                                                kussābat قصادت
                         شعري shiærā, كلب الجبار shiærā
Sirius, the Dog Star,
Sketch, rough copy,
                                                    taswid Line
                          آسمان āsmān فلك , falak فلك , āsmān
Sky,
Slope,
                                                     دّهال <u>dd</u>hāl
Sluice.
                                 دردازه dardāzah خوراب
Solar.
                                                   <u>شمسي sh</u>amsī
                                  iizām-i-<u>sh</u>amsī نظام تشمسي
زمانه شمسي zamānah-i-<u>sh</u>amsī
,, system,
 ,, time,
Solid, dense,
                               munjamid محمد, mujassam
Solid angle,
                              zāniyah-i-mujassamah خسمه
Solidity, density,
                                   انجماد injimād بستكي
Solstice (summer).
                                     راس السرطان rāsu-l-saraṭān
                                         rās-u-l-jadī راس اجدي
   ,, (winter),
                             كهناين سورج dakkhināyan-sūraj
                                             جل كرنا hall karnā حل
Solve (to),
Soluble,
                                          قابل گداز kābil-i-gudāz
Soot.
                                                      dūdah so.s
Source.
                      بر آمد bar-āmad ,عین eayn , مصدر
South.
                                                   janūb -
Span (a),
                           بلشت bilish بلش bilish بلشت bilish بلش
```

```
Span of an arch,
                                       وتر محاب natr-i-miḥrāb
                                           سارقشيطا mārkashītā
Spar (marcasite),
                             akhgar کخا, ātash-pārah هراخگ
Spark,
Speculum,
                                                    a'inah قلمنة
                                   وزن مخصوص nazn-i-makhṣūṣ
Specific gravity,
                                             kurah کی, go-\bar{\imath}
Sphere,
                                                     sipihir ....
  ., (celestial),
                مستدير mustadīr ,کری kurrawī مدور
Spherical,
                                            kurah āsā Līs
                                  کروی مثلث kurrawī muşallaş
         triangle,
                             مثلث مدور muşallaş-i-mudannir
                                       kurah-nār-ānah كرة وارانه
Spherically,
                                                         anz ;il
Lens or glass spherically convex both sides,
Spherule,
                        كرة كوچك kurah-i-kūchak مهرة, kurah-i-kūchak
                                 اولبي lawlabī بين دار, lawlabī
Spiral,
                                      منارَّ minārah منارع
Spire,
                                                  فراش farāsh
Spoke of a wheel,
اسفنية sponge, mū'ā-bādal ابر مرده, abr-i-murdah ، موا بادل, isfanj
                                                  dūrbīn رورنين
Spy-glass, telescope,
                  (v. murabbaæ karnā مربع کرنا) murabbaæ
Square,
   ,, root,
                                                      jazr \rightarrow
                                                      یگ barg
   ,, of a number,
                               اتَّال a<u>tt</u>āl انبار ambār . دَّهي ddher
Stack, heap, etc.,
Stair or stair-case,
                                    نردبان , nardabān نردبان
                                       darjah مرجه, pā-yah
  " (step of a),
كان الماير sitārah كوكب Star (planet), najmu-s-sāyr بشارة, kankab كوكب
                                                kawākib كاكب
Stars,
                                                 sanābit ثوابت
  ,, (fixed),
                                            آبِ تراش āb-tarāsh
Starlings,
                              jā'e جاي, muķām جاي, jagah
Station, place,
Stave,
                          دخان du<u>kh</u>ār بخار, du<u>kh</u>ān بناع, du<u>kh</u>ān
Steam,
```

```
د,خانی کل dūkhānī-kal
Steam engine,
z, boat, steamer, jah\bar{a}z-i-\bar{a}ta\underline{s}h جہاز آتش, ag-boat
                                              bukhār karnā ان کرنا
To steam,
                                            ispāt اسيات, fūlād فولاد
Steel.
                            منار minār مناره , minārah منار , minār
Steeple,
                                           z\bar{\imath}nah نسيڙهي, s\bar{\imath}\underline{rr}h\bar{\imath}
Steps,
                                            sang نتي patthär سنگ
Stone.
                                   نارِه nārah ,پل سنگی pul-i-sangī
,, bridge,
                                                         كاگير kā-gīr
  " work, of solid stone,
              ته زمین tah-i-zamīn طبقه tah-j. بزت pu<u>rr</u>at
Strata.
                                              بساط bisāt طبق, bisāt
Stratum,
                                         دهار dhār روانگی ranāngī
Stream.
Stream (up or opposite the current),
                                                          ujān ...\>1
                                           قرت sakat سكت, kūnat قرت
Strength,
                                          قوت اشياي سامان عارت
        of building materials, \left\{ \frac{1}{k\bar{u}nat-i-ash}y\bar{a}\bar{\imath}\ s\bar{a}m\bar{a}n-i-eam\bar{a}rat \right\}
                                    يٿيون کا رده pa<u>tt</u>ī'on kā raddah پٿيون
Stretching-course,
                                     كنگنى كا ردە kangnī kā raddah
String-course,
Student,
                        طالب علم tālib-i-æilm بديارتهي, tālib-i-æilm
Style,
          وضع nazaæ طرح tarah , طور tarah , شكل shakl
                        جامد jāmid عفص, aafaş عفص, jāmid
Styptic,
Sublimation (in Chemistry),
                                         isæād اصعاد, tasæīd تصعدد
Submarine,
                                            tahtu-l bahr حال الح
          داك بجلي دريا مين Telegraph, <u>dd</u>āk bijlī daryā men ٿاك بجلي دريا
Sub-tangent,
                                      مماس العرض mumāssu-l-@arz
                                            تحت الارض taḥtu-l-arz
Subterraneous,
Subtile.
                                          دقیق daķīķ ,باریک bārīk
Succedaneum,
                                                         سنتي , santī
                    jamaæ , jumlah da, majmūæh as is
Sum.
Sum-total.
                                                kul jamaæ م
تابستان garmā ,گرما , tābistān ,موسم گرمی Summer, mausum-i-garmī
                            آفتاب āftāb سورج sāraj , سورج
Sun,
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```
پــرتوي آفتاب Sunbeam, partaw-ī-āftāb پــرتوي آفتاب
ضُوَّ الشمس zawau-<u>sh</u>-shams , روشناي آفتاب Sunshine, ro<u>sh</u>nā'ī āftāb
Sun's course,
                                    طريق الشمس tarīķu-sh-shams
                                         برهون parhūn قرص kurş
" disc or face,
دهوَب گهڙي dhūp gharrī دهوَب گهڙي, dhūp gharrī دهوَب
                         basīt بسيط , sat-hī سطعى, musattah
Superficial,
                             سورت نما پرلا , ṣūrat-numā ايرلا
                                                        sath and
Superfices,
Superfluous,
                                                      افزود afzūd
                                 وير كي عارت upar kī aamārat
Superstructure,
                               عارت بالائي aamārat-i-bālā'ī
تمامى المرجه Supplement of an arc, tamāmī ek sau assī darjah درجه
Surd,
                                                    muntik , ihin
  ,, (in opposition to a), rational,
                                          جذر اصم juzr-i-aṣamm
  ,, (square root of a),
                                   bisāt بسطح, rū'e روي, sath بساط
Surface.
   ,, of the earth,
                                            روي زمين rū'e zamīn
                           بساط كون و مكان bisāt-i-kaun o makān
   " of the globe,
                                                rū'e āb بآب
   ., of the water,
                                            افزونی afzūnī اوت
Surplus, overplus,
                            پیمایش زمین کی paimā'īsh zamīn kī
Surveying,
                                  آويزان ānezān آويزش ānezān
Suspension,
 پل آویزای pul-i-āwezān, جہولے کا پل الاسلام, pul-i-āwezān
                                        للب gilāb خلاب, gilāb گلاب
Swamp,
Switch (railway), kenchī sarrak āhanī kī قينچى سڙك آهنى كى
                                     فهرس" fihrist, فهرست fihrist,
Syllabus,
                           دليل dalīl , قياس kiyās , قضم dalīl دليل
Syllogism (logic),
                         قياس اقتراني kiyās-i-iķtirānī, دليل dalīl رايل
 ,, absolute,
                                   قياس استثنائي ķiyās-i-istignā'ī
    " conditional,
                        kiyās-i-saķīķ-al-arkān قياس صحيح الاركان
 ,, perfect,
                                   nakīsh نقيش, calāmat
Symbol (a),
```

```
علمات æalāmāt
Symbols,
Symmetry,
                                 جواب janāb, janāb,
Synchronical.
                            مموقت ham-nakt ممعيد
                                                  ghashī, shi
Syncope,
                                mukhtaṣar ijmāl احمال, ijmāl
Synopsis,
Syringe,
                              miḥķanah حقته, pichkārī چکاری
System,
                                        طريق tarīķ , نظام
                              T.
                                  جدول jadnal فيرست, jadnal
Table,
                                جدول لوگارثم jadwal-i-logārsam
  " of logarithms,
                              جيب مستوي و جيب تمام وغيره
  ,, of sine, cosine, etc., jeb-i-mustant, o jeb-i tamām, naghairah
Tackle.
                                               جرخی charkhī
Talc, mica.
                                                    ادک abrak
Tangent.
                                                mumāss , who
 جيب و مماس و سهم , sine, and secant, jeb, o mumāss, o sahm جيب و مماس و سهم
                                         قطران katarān کیل kāl
Tar.
                                             ثور sanr برس bris
Taurus,
                                  اصطلاحي istilāhī الغوى
Technical.
Telegraph,
                                                mukhbir
                                سخبر كبربائ mukhbir-i kah-rubā'ī
          electric,
                                          دّاك بحلى ddāk bijlī دّاك بحلى
                                        مخبر كهربائي تحت البحر
          (submarine),
                             mukhbir-i-kah-rubā'ī taḥtu-l-bahr
Telescope,
                                                 ceربين dūrbīn
Temper (of steel),
                                                       āb Jī
Temperature,
                                  فتورت futūrat , اعتدال iætidāl
                                          فتورت با اعتدال هوا
Temperature of weather,
                                   futūrat, yā iætidāl-i-hanā
                                       \bar{a}b-d\bar{a}r آب دار
Tempered well (steel), sharp as a sword,
                             كمانا kamānā, تيار كرنا kamānā,
Tempering,
                                    آب دا، بنانا āb-dār banānā
```

```
Tempest, storm,
                                                       de el .. de
                                                       الله dāsah داسه
Template,
Temple (Hindū),
                                          مند, mandir ديول dewal
                                                     khichā'o
Tension,
                             شیر گرم <u>sh</u>īr garm نیم گرم
Tepid,
Term.
                                 rukn رکی, martabah جز, juz بر
                                     muntaha' منتهى, anjām انجام
Terminus,
                                          az bar o bahr از بر و بحر
Terraqueous,
                                        ارضيّ ، arzī زميني zamīnī
كرد ارض kurah-i-arz
Terrestrial,
 ,, globe,
Tesselated.
                                                  muæayyan .....
                   جانب jān<u>ch</u> ازمایش azmā'ī<u>sh</u> ارتحان
Test,
                    \int azm\bar{a}'i\underline{sh}\ karn\bar{a} ازمایش کرنا , j\bar{a}n\underline{ch}n\bar{a}
 ,, (to),
                                        imtaḥān lenā امتحان لينا
                                           تماشه گاه tamāshah-gāh
Theatre,
Theodolite.
                                              تىماد.لىت theoddolite
                                       kiyāsī قياسى, khiyālī خيالى
Theoretical.
                                         kiyās قياس, khiyāl خيال
Theory,
                                 آلت حرارت کی ālat ḥarārat kī
Thermometer.
                 سنشا makaddamah متدر masdar متدر, manshā منشا
Thesis (a).
                                             گرج garj, تندر
Thunder.
                                 يجر bajr بجلي bijlī چکي, bajr بجر
   ,, bolt,
Thyme, wild marjorum,
                                                           ipār الا,
                    jo'ār bhāttā madd-o-juzr جوار بهاتا مد و جذر
Tide,
                                             جذر بهاتا juzr bhāttā جذر
,, (neap),
                                  مد madd جوا, jo'ār کوتار, madd
  " (spring),
                                           رانگ rāng قلعی rāng رانگ
Tin,
                        rāng kī kalæī karnā رَانگُتَ كُي قَلْعي كُرِنا
هنهيار hathiyār , اوزار
Tinning,
Tools,
                                      dandānah دندانه, dānt دانت
Tooth,
                               دندانه یہید کے dandānah pahiyah ke
   ., or cog of a wheel,
                             دندانه داریهیه dandānah-dār pahiyah
Toothed or cogged wheel,
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```
takhtītu-l-bilād اللاد
Topography,
                             mintakatu-l-mahrūkah منطقة المحروقة
Torrid zone:
سنگ عيار æayār كسانا, kasānā كسوتي, sang عيار eayār سنگ
Tower, minār برج, burj برج, burj برج, burj برج, minār مينار, burj بهينكي گئي شي كا مدار phenkī ga'ī <u>sh</u>aī kā madār
                                 برکار بیضوی parkār-i-baizanī
Trammel.
عبور دريا aubūr-i-daryā ماورا البحر
                                                    <u>شفافی shaffāfī</u>
Transparency,
                                                    شفاف shaffāf
Transparent,
Transverse, \bar{a}\underline{rr}\bar{a} ابّاً, \bar{a}\underline{rr} بّاً, æamūd lambā'ī ke عمود المبائي کے
                                      ر کلار، miḥwar-i-kalān کیور کلار،
          axis or diameter,
                                      إِلَّا مَعُور barrā miḥnar
                           تراش لمبائی کے tarāsh lambā'ī ke
          section,
             shakl \ \underline{ch}har{a}r \ zalaa \ kar{\imath} شکل چهار ضلع کی
شكل ذو اربعة الاضّلاع Trapezium, { shakl-i-zū arbaæati-l-azalāæ شكل ذو اربعة الاضّلاع
                                              munharif في جنح
                                  musanīu-l-aumūd Janes Iland
Trapezoid,
                                                 شاکت shabākat
Trellis.
                                        كيل لكڙي كي kīl lakṛṛī kī
Trenail.
                              مثلث musallas , سه گوشه sih-goshah
Triangle, also tripartite,
         (base of a),
                                                           lom by
                                               مثلث حادة الزاويه
         (acute angled),
                                  musallas-i-ḥāddatu-z-zāniyah
                                 مثلث مساوى musallas-i-musānī
         (equilateral),
                                            مثلث مساوى الساقين
         (isosceles),
                                    muşallaş-i-muşānīu-l-sākain
                                        مثلث مختلف الاضلاع
         (oblique or scalene),
                                  musallas-i-mukhtalifu-l-azlāæ
                                       مثلث منفرجة الزاويه
         (obtuse angled),
                              musallas-i-munfarijuta-z-zāniyah
         (right angled), musallas-i-kā'īmah مثلث قامه
         (perpendicular or shortest side of), bhuj جيج
```

مثلث كروي musallas-i-kurawwī Triangle (spherical), tikoniyā تلائي, ṣalāṣī تكونيا Triangular, کےوش kos ,, (rule for carpenters), Trigon, triform, sagānah منگانه علم مثلث æilm-i-musallas , علم رصد Trigonometry, ailm-i-rasad مناك musallas سه جانب, musallas Trilateral, تثلث taslis Trine (stars), tihrā اتهرا Triple, musallasahu-bi-t-takrīh مثلثه بالتكريه Triplicate, ratio, Tripod, tirpad تپاهی ت $par{a}'ar{\imath}$,سپائی $ar{sip}ar{a}'ar{\imath}$, تر پد تر کهنٿي tir-khun<u>tt</u>ī Trivet, خط جدّى khatt-i-jadī خط Tropic of Capricorn, خط سرطان khatt-i-saratān ,, Cancer, خط سرطان و جدي khatt-i-saratān o jadī خط سرطان Tropics (the), جذيم maktūæ مقطوع, jazīm مخروط, Truncated, سغروط ناقص makhrūt-i-nāķiş ,, cone, نل nal پهونپهي, nal Tube. اندروني رسته andarūnī rastāh Tunnel, shafuk شغق Twilight, Twinkling (as of the stars), tirmirānā sitāron kā كرمرانا ستارون كا

U.

Uniformity, eksān يكسان, munāfaķat بيكسان, munāfaķat يكسان, munāfaķat يكسان, ek شاك بيكانگي, yak ميك بيكانگي, yakānagī يكانگي yaktāʾī يكانگي, yakānagī يكانگي yakānagī يكانگي yakānagī يكانگي yaktāʾī يكانگي hamkā ليكانگي banātu-n-naæsh بنات النعش dubb-i-akbar جهمكا يكانگي يكانگي يكانگي بنات النعش aubb-i-aṣghar يكانگي يكانگي

V.

```
Valley, darrah دون, wādī وادي, dūn دره, tarā'ī گهادر, khādar
                                            قشرت kashrat
Valve,
                               b\bar{a}ph بايھ, taf تف, bukh\bar{a}r
Vapour,
                                               abkhirah s :
Vapours, exhalations,
                           مقادير متغير maķādīr-i-mutaghayyar
Variable quantity,
تغير taghayyur , تبديلي tabdīlī , ترتيب, taghayyur
نقص و كمال قمر nukṣ o kamāl-i-kamar بنقص و كمال قمر
                                    شاخ فلزات shākh-i-filizzāt
Vein of metal,
Velocity, raftar{a}r رفتار, \underline{ch}ustar{\imath} چستی, suræat سرعت, eajalat
                                               jhilmī جهلمي
Venetian blind,
                                         sukr سکر, zuhräh s,s;
Venus (planet),
                                      dعنه taænah فرب zarb
Verberation.
                                    ربيعي rabīæī بهاري, rabīæī
Vernal,
                     ilpha tidar{a}l-i-rabar{\imath}lphaar{\imath} نوروز no-roz اعتدال ربيعي no-roz
  " equinox,
Vernier.
                                                 nernier ورنير
                                  jeb-i-muækūs جيب معكوس
Versed sine,
                         سمت الراس simtu-r-rās , چوٿي
Vertex, zenith,
                                       عمود افق eumūd-i-ufuķ
Vertical,
                                                 ānand i,ī
Vessel or pan,
                            harkat-i-mutazalzal حرکت متزلزل
Vibration,
                     jumbish-i-pesh o pas جنبش پیش و پس
                       Virgo (sign of Zodiac,
                        ترمراهت tirmirāhatt سنبله
                                         ظاهر zāhir, صريح
Visible.
                                      افتي ظاهري ufuk-i-zāhirī
  ,, horizon,
Vitreous,
                                               زجاجي zujājī
                             كلنا galnā بجهاما هونا jhāmā honā كلنا
Vitrification,
                               تغير بزجاج taghayyur ba-zujāj
جبل النار jabalu-n-nār كود آتش فشان, jabalu-n-nār كود آتش
Volume,
                                   jasāmat ...., hajm =
Vulgar fractions,
                                         كسور عام kusūr-i-aām
```

W.

گاڙ*ي gā<u>rr</u>ī* Waggon, cart, dīwār , so Wall, dasah داسه Wall-plate, گودام kotthi, کوتھی kotthiWarehouse, ساعت sā-æat گيڙي gharrī Watch or clock, مانى آب pānī بانى Water. ,, (running) rivulet, current, stream, آب روان āb-i-jārī آب جاري, āb-i-ranān آب خانه āb-khānah (repository of), (a swell of), also soil from which water $\bar{a}b$ - $\underline{k}hez$ آب خيز rises if but dug into slightly, (brackish, salt, or sea), khārā pānī كهارا ياني, āb-i-shor آب شور آبي مصالح ābī-maṣāliḥ Water-cement (waterproof), mauj , lahar Wave, hālat-i-hanā احالت هوا mausim موسم Weather, اد نما bād-numā ماد Weather-cock, a vane, mekh : Wedge (a), wazn ...; Weight, auzān ...!;.! Weights, chāh sla, kū'ā la Well (a), کوئي يا چاه کي بنياد kū'e yā chāh kī bunyād ,, (foundation), مغرب maghrib, maghrib, شوب , maghrib West (the), گهات ghātt Wharf, landing-place $ghattwar{a}r$ گهٿوال, $ghattwar{a}l$ Wharfinger, سان كا يقهر sān kā patthar آسيانه asī'anah Whetstone, بگولا banan<u>dd</u>ar بندهوا, bandhanā بيونڈر, bagūlā بيدهوا Whirlwind, gird-bād كدياد گرداب bhaunrā , بھونرا, girdāb بھنور, girdāb بھنور paun يون, hanā ام Wind, خرخي charkhi منجنيق, manjanīķ ارغاد Windlass,

Windmill, Wool,

pann- $\underline{ch}akk$ ر پونچکې, $han\bar{a}$ - $\underline{ch}akk$ ر هوا چکې $pa\underline{sh}m$ پشم n

Y.

Year, ,, (leap), سال sāl برس, sāl سال سال كبيسة

Z.

XIII.—TREES AND THEIR TIMBER, GARDENS, ETC.

Acacia tree (Mimosa mughailān مغيلان, kīkarr ببول, babūl ببول Arabica), درختستان dirakhtistān Arbour. Avenue. روش ranish Bay tree (Laurus cassia), شمشاد shamshād Box tree. Box, شمشاد shamshād jahārr " Brake, بلوط ballūt بلوط, ballūt بالوط Chesnut, Cypress, sarn , w diodar , sos Deal (sorts). اجوایی ajnāyan Dill (Ligusticum ajowan), tāgh ¿lī Elm,

Fig., glomerous (Ficus glomerate	ادمبر udambar
Fig (Indian) (Ficus Indica),	بڙ ba <u>tt</u> بٿ, ba <u>rr</u> بڙ
,, (holy) (Ficus religiosa),	$p\overline{\imath}pal$ ييپل
Fir,	chilghozah چلغوزه, nashtar نشتر
Forest or wood,	بن ban جنگل jangal
,, (small),	بنی banī بنی
Garden, orchard, etc.,	باغ ُ bā <u>rr</u> ī باڙ <i>ي, bāg<u>h</u></i>
,, (small),	bāgh-chah هجفاب
,, (flower),	يعِلوا ربي phulnā mr بوستان
Grove (a),	بنى banī
,, (artificially planted),	. پ ابايي upāban
• -	لَّا اللَّهُ bārr bāndhnā (باَرُّ باندهنا), bārr
Kitchen garden,	$bar{a}gh$ بازی, $bar{a}rr$ ، باغ
Oak (also the chestnut),	شاه بلوط shāh-ballūt
Olive (wild), the tree and wood,	$pprox aitar{u}$ زيتون و
Orchard, fruit garden,	$bar{a}gh$ بأغ
Palisade, railing,	كقبرا katt'h-gharā كقهرا, katt'harā كقبرا
Pīlū (Salvadora Persica),	$par{\imath}lar{u}$ پيلو
Plane,	<u>ch</u> īnār چينار
Poplar,	$sapar{\imath}dar{a}r$ تاغ , $tar{a}gh$
Sāl (Shorea robusta, Rox.),	اسآل sāl
Shisham (Sesu dalber.),	<u>sh</u> īsham شیش
Tamarisk (Tamarix Indica),	جهاو jhā'ū
Teak,	ساگون sāgūn
Tūn (Cedreta tuna),	$t\bar{u}n$ تون $t\bar{u}n$
Underwood, brake,	jhā <u>rr</u> جهاڙ
Wood, timber,	دلئزي lak <u>r</u> rī چرب
Wood, forest,	بي ban جنگل jangal
,, (small),	banī ينني

XIV.—SHIPPING, BOATS, AND RIVER NAVIGATION.

Abaft,	پنهواڙا pi <u>ch</u> hwā <u>rr</u> ā
Aboard (ship),	جهاز پر jahāz-par
Afloat,	بهتا bahtā
Aft,	pichhnārrā ارّا pichhnārr
Aground, kinārey par a <u>tt</u>	$kar{a}$ النكا هوا a نارے پر النكا هوا, a
,, to run (act.),	كنارے چڙهانا kinārey charrhānā
,, to run (neut.),	کنارے چڑھنا kinārey charrhnā
Anchor,	لنگر langar
,, (to), langar mārn	da انگر ڈالنا $daloa$ انگر مارنا, $langar$
Arsenal, dockyard,	كار خانه kār- <u>kh</u> ānah
Ashore (on shore),	کنارے پر kinārey par
,, to run (act.),	كنارے حيرهانا kinārey charrhānā
,, to run (neut.),	کنارے چڑھنا kinārey charrhnā
Bank of a river,	كناره kinārah كناره
,, (steep, precipitous), a cliff,	a precipice, <u>dd</u> hāng دهانگ
,, (sand) or shoal,	char ;=
Banks of a river, high and stee	p, a <u>rr</u> ā <u>rr</u> ā (jiljil
Barge,	pa <u>rr</u> o'ā or pa <u>rr</u> nā ا
Bargeman,	mānjhī مَانَجِهِي
Bark, boat,	كشتى <i>kisht</i> t ,ناو <i>nā'o ,</i> نيڙ <i>ي, kisht</i> t
Barnacle,	سيالا يوكا Bengal) siyālā-pokā سيالا يوكا
Barrel, cask,	pīpā بيا
Bay, creek,	پ کهال khāl ,کهاری khāl
,, (large), a gulf,	bahr ,
Beach, shore,	برر کناره kinārah کناره
Belaying-pin,	کېونڌي khūn <u>tt</u> ī
• • •	atārā امتارا, ghinī گهنی, ghirnī متارا
,, (single),	بهري ایکهری ghirnī ekharī گهرنی ایکهری
(double),	قري دوهري ghirnī doharī
11	بري عربري ، سري ، سري

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گهرنی تیهری ghirnī teharī
Block (treble),
                                    ناو nā'o کشتی kishtī بیزی, nā'o
Boat,
  ,, (ferry-boat),
                                              يڙوا parro'ā or parrnā
  ,, (large), a lighter,
                                                          ىية bharr
                                                        ٿنڌيل ttanddīl
  ,, (master of a),
Boat-hook, a pole used as,
                                                               ballā L
              na'o vālā ناو والا, ki\underline{s}htī-vān كشتيوان, mānjhī مانجهي, m
                                               بيرى والا berrī-nālā
                                    سرهنگ sar-hang گليا, sar-hang
Boatswain,
The bottom,
                                               تلى talha<u>tt</u>ī تلهتى, talī تلى
                                                       تل tale, تلى tale
Bottom, below, between-decks,
                                                          penda ایندا
Bottom of a boat or ship,
                                                      تلی ایر tale-upar
Bottom up,
                                                           pendā \in
Breech of a gun,
Breeze (also gust or puff),
                                           jhokā Vez, jhok
Broadside, volley,
                                               shallakh or shalkh
Buoy, a float,
                                            تریند tirenda تریندا
                                                       تروندا tirwandā
  ,, or beacon,
                                       برج burj (زنجير chain, zanjīr), burj)
Cable.
                                                        dabūsah دبين
Cabin,
                                                 تَّاتُ <u>#</u>ajā<u>rr</u> اجارً <u>#</u>a<u>t</u>t
Canvas.
                                                   گون goni گوني, gon
 ,, bag,
                                                          بهرتی bhartī
Cargo,
                                                             p\bar{\imath}p\bar{a} \mu
Cask, barrel,
                                                           Shanī گئينے
Caulking,
                                                ghanī karnā گهنی کرنا
To caulk.
                                                   abr بادل bādal ابر
Cloud or clouds.
                                                         kinārah s
Coast, strand, beach,
                                                             pech zu
Coil of rope, etc.,
                                                            guroh s. 5
Company (ship's),
```

شمال نما <u>shamāl-numā</u>. قطب نما Compass (mariner's), kutb-numā مال نما

baḥrī حري.

Compass (a point of),	دس dis دسا dissā دگ dis دس		
Cord, string, etc.,	رىسى rassī		
Creek (small bay),	كول kol كهال khāl		
Creek (dock),	کهاری khārī		
Crew,	گروsuroh s		
Current, stream,	بهاتها bhātthā ,دهارا		
,, (with the),	بهاتهي bhātthī بهاتهيال bhātthiyāl		
Deck (the),	منزل takhtah خنخ , manzil منزل		
Decks (two), of two decks,	د. منزله do-manzilah		
Deep water,	lujjah ad		
Demurrage,	گوهری goharī		
Dock,	کھاری khārī کھاری		
,, yard,	كار خّانه kār- <u>kh</u> ānah		
Drag, grappling-iron,	انكوڙا anko <u>rr</u> ā		
Dry-rot,	گهن ghun		
Ebb-tide,	اتار utār بهالها bhātthā		
Ebb (to),	bhāttiyānā بهاتُّهِيانا		
,, (with the, or with the stream), bhātthiyāl بِهَاتُهِي , bhātthī بِهَاتُهِي , bhātthī بِهَاتُهِي ,			
Ebb and flow,	سد و جزر madd-o-jazr		
Eddy,			
Ensign staff,	بهخور bhannar ڈنڈا <u>dd</u> an <u>dd</u> ā		
Fair-wind, $b\bar{a}d$ -i-shun	باد مراد bād-i-murād باد شرطه tah		
Fathom,	nām elo, bam e		
Ferry, ford,	گذر guzar		
Ferry-man,	گذر وان guzar-nān		
Fishing raft,	$tar{a}par{a}$ تابا		
Fisherman, $\begin{cases} ma\underline{ch}h\bar{i} \ n\bar{a}l\bar{a} \end{cases}$	مجهلي والا machhlī-nālā , مجهي والا		
Tanorinair,	مخْهلي والا ma <u>ch</u> hlī-nālā ,• يجهي والا i ماهي گير māhī-gīr		
Fish, $m\bar{a}h\bar{i}$	ماه, machhlī ماه, machhlī ماه		
To fish,	machhlī pakarrnā الكانا الله mach		
Flag-staff,	دُنْدًا <u>dd</u> an <u>dd</u> a		

Fleet (a),

```
Float (a raft),
                                               سية berrā اڙپ , berrā
                                          تریند tirenda تریند, tirend
  ,, (a buoy),
To float.
                                                           bahnā Lin
To float off (to launch),
                                        بيسانا bhasānā ديانا, bhasānā
                                   غرقاب هوجانا <u>gh</u>arkِ-āb ho-jānā غرقاب هو جانا
غرق هو جانا <u>gh</u>arkِ ho-jānā
To founder,
                                                            bahtā اليا
Floating, afloat,
Foam, froth,
                                               جهاگ hāg کف, jhāg
                                              galahī , گلہی, āgal آگل
Forecastle, prow,
                                           ياد مخالف bād-i-mukhālif
Foul wind.
                                                          tūfān ... de
Gale of wind, a storm,
                                         شمشه ساعت shīshah-sāæat ساعت
Glass (hour),
                                                             bahr ~
Gulf, large bay,
Gust of wind, puff, breeze, jhapkā جهوک jhokā, جهوک jhokā, جهوک
                                                         ڏلارا ddalārā
Hammock.
                                                        كانڈى kānddī
Handspike,
                                          mandal مندل, bandar
Harbour,
                                                          bandar , wie
Haven, port,
                                                              bruj جرج
Hawser, thick track rope,
                          سكاني sukkān , پتوار patnār , پتوال patnāl
سكاني jhingat , جينگت
Helm, rudder,
Helmsman,
                                                            khin ...
Hold (the).
                                        shīshah-sā-æat ساعت مششه
Hour-glass,
                                                          post -was
Hull (the),
                                                       jazīrah s
Island (an),
                                                              char
   ,, (small), a shoal,
                                buḥairah جهيل, jallā جهيل, jhīl جهيل
Lake (a), small sea,
                                                       bhasānā كالسيانا
To launch.
                                                آب شناس ab shinās
Lead (sailor who heaves),
                                                             bharr :
Lighter, barge,
                                                         fanūs weile
Lighthouse,
                                                          purram 5
Log-line,
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اتا, utar رياتيا bhatthā
Low water, low tide,
Maritime, naval,
                        jah\bar{a}z\bar{\imath} جہازي, bahr\bar{\imath} جريائی, bahr\bar{\imath}
Marine, nautical,
                                       jahāzī جهازي, mallāh ملاح
Mariner, sailor,
                                                   nā-khudā اغدا
,, (master),
   ,, (supercargo), karn dhār كرن دهار, <u>charr</u>handār كرن دهار,
                           تهام thām کهام khām , قول ddol , تير
Mast (a),
Mouth of a river, or of a watercourse, or canal, dahānah دهانه
Nautical,
                         بحرى baḥrī , جهازى jahāzī دريائ daryā'ī
Naval, maritime,
                               ملاحي mallāḥ-ī ناخداي, mallāḥ-ī
Navigation, seamanship,
Navy (a), a fleet,
                                                          baķr 🗻
                                                        .
گهنی ghanī
Oakum,
                                          چپو <u>dd</u>ān<u>dd</u> داند , <u>ch</u>appū
Oar, paddle,
                                                    \underline{dd}دًانڈی \underline{dd}
Oarsman.
                      سمندر samundar دريا daryā عمان samundar
Ocean (the),
                                         حيو chappū, داند ddandd داند
Paddle,
Passage, voyage,
                                                        khep كهيب
Passenger, also supercargo,
                               حرِّهندار charrhandar مسافر
Pin or belaying-pin,
                                                     كهونتى khūnttī
                                                    قير kīl كيل, kīr
Pitch.
Point of the compass,
                                       دس dis دیا, dissā دی dis
Pole for pushing along or steering a boat,
                                                            ballā L
 ,, (bamboo)
                                             khalah ملخ, balli مل
Port, haven, harbour,
                                        سندر bandar مندل
                                                    کنگر kangurah کنگر
Port-hole,
                                                    رسبتي ras-battī
Port-fire.
                                            آگل agal گلہی galahī
Prow, forecastle,
                           jhapkā جبوك , jhokā جبوك , jhok
Puff, or gust of wind,
Pulling and hauling,
                                           khenchā-tānī كانى
To pull, to drag.
                                                   khenchnā lizins
حِيهِ مارنا <u>da</u>ān<u>dd</u> mārnā ٿانڌ مارنا, chappū mārnā چپو مارنا
```

```
چور بالو <u>ch</u>or-bālū, دزد ریگ
Quicksand,
                                                         berrā اينا
Raft,
                                                           tāpā ŪŪ
 " (fishing),
                                                         د, يا daryā
River,
                                 بهاتهي bhā<u>tt</u>hiyāl بهاتهيال, bhā<u>tt</u>hī
 ,, (down), with the stream,
                                                        اجان ujān
    (up), against the stream,
                                                         دريا daryā
  ,, (large), a sea,
                                               rūd رود, naddī ندى
  ,, (small),
                            رسا rassan رسن, rassan ريسمار, rassā
Rope, cordage,
                                         برج bruj (گن small, gun)
  " (thick track),
  ,, or painter of a boat,
                                                            lāw ,
                                                           burj جرج
  ,, (stout), a ship's cable,
                                                        battnā الثنا
  .. (instrument for twisting),
حِيو مارنا <u>dd</u>ān<u>dd</u> mārnā ڈانڈ مارنا, <u>ch</u>appū mārnā چپو مارنا
                                                    <u>ڈانڈی dd</u>ān<u>dd</u>ī
Rower (a),
                          سكان sukkān , پتوار patwār , پتوال
Rudder, helm,
                                           pāl ال, bād-bān بادبار,
Sail.
                                       jahāzī جہازی, mallāḥ
Sailor.
                                                 آب شور āb-i-shor
Salt-water, sea-water,
                                              daryā دريا, baḥr
Sea, ocean,
                                                      الىس <u>dd</u>abas
Sea stores, sea stock,
                                      jahāzī جہازي, mallāḥ مسلاح
Seaman,
                               ملاحي mallāḥ-ī ناخدائ, mallāḥ-ī
Seamanship, navigation,
                                uthalā اتهل, uthal اتهل, paitalā ستلا
Shallow,
                                        دامن dāmān دامان dāman
Sheet (the) of a sail,
                                                       jahāz jus
Ship
                                                 jahāz-par - جہاز پر
  ,, (abroad),
                                         جهاز شکنی jahāz-shikanī
Shipwreck,
                                                        "guroh s. 5
Ship's company, crew,
                                                      kinārah s
Shore, beach,
                                              کنارے پر kinārey par
On shore, ashore,
                                                           char =
Shoal, or small island in a river,
```

Sides (both) of a river, South, Southing, Squall, Staff (flag or ensign), To steer (with a pole), Steersman, helmsman, Stern (the), Storm, tempest, gale of wind, Strand, beach, shore, To strand (act), (neut.), Strand of a rope, Stream, current, String, cord, twine, چڙ هندار <u>charrhan-dār, کرن دهار karn-dhār</u>, ناخدا موج mauj , هلكور hillora , هلكور hillorā , هلورا Surge, هلكورنا hilkornā ,هلورنا hilornā ,هلورنا hilornā ,همور مارنا Tar, To tar, to pay over with tar, Tar (a), a sailor, Tempest, gale of wind, storm, Tide. ,, (ebb and flow), " (spring), ,, (flood), Timber (the) of a ship or boat, Trip, passage, voyage, Trunnion, Twine, cord, etc., Unfathomable,

To unlade, or unload,

pār-o-wār dakhan مكان دكينايى dakhināyan jhakarr Ken ڈنڈا ddanddā بلى مارنا ballī mārnā jhingat جهنگت, sakkānī سيكاني dabūsah دبية طوفان tūfān كنارs kinārah کنارے حِوْهانا kinārey charrhānā کنارے چڑھنا kinārey charrhnā larr 3 دهارا dhārā بهاديا, dhārā بهاديا رسى rassī ريسمان, rassī كيل katarān قطران, kīl كيل كىل لگانا kīl lagānā jahāzī جہازی, mallāh deil, tūfān جزر jazr مد و جزر jazr مد jazr-o-madd مد khattāl کیتال janār ,\-گونڙا gūn<u>rr</u>ā گونڙا khep كهيب برکار، parkān رىسى rassī , يسمان resmān athāh slail, agam " Sl ابهرانا ubh-rānā اڌارنا

```
Unladen,
                                                          ubh-rā 1,21
                                باد نما bād-numā بعرهري, bād-numā
Vane (a), a pennant,
Vessel in general, a ship,
                                                         jahāz ; \_
                                              shallakh or shalkh
Volley, broadside,
                                                        bhannar ,
Vortex.
                                                         khep ____
Voyage, passage, trip,
Water (the),
                                                            pānī uli
   ,, (deep),
                                                            lujjah as
   ,, (shallow),
                                 pai-tala إِنَهِل uthal إِيتِلا , uthla اتهِل , uthla
   ,, (salt),
                                                   آب شور āb-i-shor
Waters (the), the sea or ocean,
                                                دريا baḥr جر, daryā دريا
                                        سانجيء mānjhī ملاح, mānjhī
Waterman, boatman.
Wave, surge,
                            من سوج maij, ملكورة hilkorah , هلورا hilorā
Wharf or quay,
                                                          گهات ghātt
Wharfinger,
                                     كَيْقُوال ghattwār كَيْقُوار, ghattwāl كَيْقُوار
Wind (the).
                                                   bād st, hanā les
                      باد مراد bād-i-murād باد شرطه, bād-i-murād
  ., (fair),
  ,, (foul, contrary),
                                          ماد مخالف bād-i-mukhālif
  ,, (stormy),
                                                   یاد تند bād-i-tund
                                         به باد ba-bād ساد ba-bād به باد
To the wind,
                                                        گهير ني ghīrnī
Winch, crane, etc.,
                                          جهاز شکنی jahāz-<u>sh</u>ikanī
Wreck (a) (ship),
جهاز شكستّه هو جانا To become a wreck, jahāz <u>sh</u>ikastah ho-jānā
                                   کنارے حِرِّهانا kinārey charrhānā
To wreck (act.),
                                                كار خانه kār-khānah
Yard (dock),
                                                       بروان parwān
  ,, (sail),
                                  ارِّدَندًا a<u>rrdd</u>an<u>dd</u>ā , يروان
  ,, (for sails),
```

ERRATA.

PAGE		FOE	READ
2	26	baķāl,	baķķāl.
9	6	jhālanā,	jhāl-nā.
10	16	pajāwa, etc.,	pajāwah, etc.
22	18	add	or مسطر mistar.
12	3	Phā'orrah,	Phā'o <u>r</u> rā.
17	28	v. To slake, etc.,	(v. To slake, bharkānā ايهركانا)
19	24	کان سنگی کی kān sangī kī	کان سنگ کی گفت با kān sang kī
25	12	rī-wāk,	$r\bar{\imath}$ - $w\bar{a}k$.
31	16	mistir	mistar, or mistar
36	21	$gynt\overline{\iota},$	or gentī.
38	23	bund,	band.
54	20	mughalak,	mughlak.
57	24	jantr alāt جنتر الات	jantr جنتر, ālāt آلات
64	28	munhanī,	munḥanī.
65	9	عشارية æashārīyat	عشاریه æashārīah
22	10	"	"
71	26	nisfu-l-dā'īrā نصف الدايرا	nisfu-l-dā'īrah الدايرة
77	26	madaniyāt,	mæadaniyāt.
78	26	hāzārhā هازارها	hazārhā هزارها
105	8	sakkānī,	sukkānī.

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